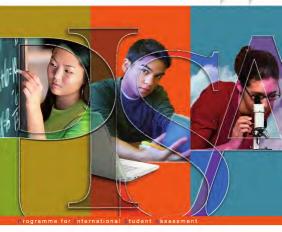
PISA 2009 Results: What Students Know and Can Do

STUDENT PERFORMANCE IN READING, MATHEMATICS AND SCIENCE

VOLUME I







PISA 2009 Results: What Students Know and Can Do

STUDENT PERFORMANCE IN READING, MATHEMATICS AND SCIENCE (VOLUME I)



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Foreword

One of the ultimate goals of policy makers is to enable citizens to take advantage of a globalised world economy. This is leading them to focus on the improvement of education policies, ensuring the quality of service provision, a more equitable distribution of learning opportunities and stronger incentives for greater efficiency in schooling.

Such policies hinge on reliable information on how well education systems prepare students for file. Most countries monitor students' learning and the performance of schools. But in a global exonomy, the yardisk for success is no longer improvement by national standards alone, but how education systems perform internationally, the COCD has taken up that challenge by developing PSNs, the Programme for International Student Assessment, which evaluates the quality, equity and efficiency of school systems in some 70 countries that, together, make up nine-tenths of the world economy. PSN spreegers as commitment by governments to monitor the outcomes of education systems regularly within an internationally agreed framework and it provides a basis for international collaboration in defining and implementing educational policies.

The results from the 2009 PISA assessment reveal wide differences in educational outcomes, both within and across countries. The education systems that have been able to secure strong and equilable learning outcomes, and to mobilite rapid improvements, show others what is possible to achieve. Naturally, COD per capit influences educational success, but this only equalisms 6% of the differences in average subcent performance. The other 94% reflect the patential for public policy to make a difference. The stunning success of Shanghai-China, which tops every loague table in this assessment by a clear marrigh, shows what can be achieved with moderate economic resources and in a diverse social context. In mathematics, more than a quarter of Shanghai-China's 15-year-olds can conceptualize, generalies, and recrudely use information based on their own innestigations and modelling of complex problem situations. They can apply insight and undestanding and develop new approaches and stategies when addressing new of statations, in the COLD area, task's 50% of students each that bets of performance when addressing new of statations, in the COLD area, task's 50% of students each that bets of performances.

While better educational outcomes are a strong predictor of economic growth, wealth and spending on education alone are no guarantee for better educational outcomes. Overall, PISA shows that an image of a world divided neatly into risk and well-educated countries and poor and badly-educated countries is out of date.

This finding represents both a warning and an opportunity, it is a warning to advanced economies that they cannot take for granted that they will forever have "human capital" superior to that in other parts of the world. At a time of intensified global competition, they will need to work hard to maintain a knowledge and skill base that keeps up with changing demands.

PISA undefines, in particular, the need for many advanced countries to tackle educational underperformance so that as many members of their future workforce as possible are equipped with at least the baseline competencies that enable them to participate in social and economic development. Otherwise, the high social and economic cost of poor educational performance in advanced economics risks becoming a significant dup on economic development. At the same time, the findings show that poor skills are not an inevitable consequence of low national income — an important outcome for countries that need to achieve more with less of the properties of the

But PSA also shows that there is no reason for despair. Countries from a variety of starting points have shown the potential to raise the quality of educational outcomes substantially. Korea's average performance was already high in 2000, but Korean policy makers were concerned that only a narrow ellie achieved levels of excellence in PISA. Within less than a decade, Korea was able to double the share of students demonstrating excellence in reading literacy. A major overhaul of Poland's School system helped to domantically reduce performance variability among



schools, reduce the share of poorly performing students and raise overall performance by the equivalent of more than half a school year. Germany was jolted into action when PISA 2000 revealed a below-average performance and large social disparities in results, and has been able to make progress on both fronts. Israel, Italy and Portugal have moved closer to the OECD average and Brazil, Chile, Mexico and Turkey are among the countries with impressive gains from very low levels of performance.

But the greatest value of PISA lies in inspiring national efforts to help students to learn better, teachers to teach better, and school systems to become more effective.

A closer look at high-performing and rapidly improving education systems shows that these systems have many commonalities that transcend differences in their history, culture and economic evolution.

First, while most nations declare their commitment to education, the test comes when these commitments are weighed against others. How do they pay teachers compared to the way they pay other highly-skilled workers? How are education credentials weighed against other qualifications when people are being considered for jobs? Would you want your child to be a teacher? How much attention do the media pay to schools and schooling? Which matters more, a community's standing in the sports leagues or its standing in the student academic achievement league tables? Are parents more likely to encourage their children to study longer and harder or to spend more time with their friends or in sports activities?

In the most successful education systems, the political and social leaders have persuaded their citizens to make the choices needed to show that they value education more than other things. But placing a high value on education will get a country only so far if the teachers, parents and citizens of that country believe that only some subset of the nation's children can or need to achieve world class standards. This report shows clearly that education systems built around the belief that students have different pre-ordained professional destinies to be met with different expectations in different school types tend to be fraught with large social disparities. In contrast, the best-performing education systems embrace the diversity in students' capacities, interests and social background with individualised approaches to learning.

Second, high-performing education systems stand out with clear and ambitious standards that are shared across the system, focus on the acquisition of complex, higher-order thinking skills, and are aligned with high stakes gateways and instructional systems. In these education systems, everyone knows what is required to get a given qualification, in terms both of the content studied and the level of performance that has to be demonstrated to earn it. Students cannot go on to the next stage of their life - be it work or further education - unless they show that they are gualified to do so. They know what they have to do to realise their dream and they put in the work that is needed to achieve it.

Third, the quality of an education system cannot exceed the quality of its teachers and principals, since student learning is ultimately the product of what goes on in classrooms. Corporations, professional partnerships and national governments all know that they have to pay attention to how the pool from which they recruit is established; how they recruit; the kind of initial training their recruits receive before they present themselves for employment: how they mentor new recruits and induct them into their service; what kind of continuing training they get; how their compensation is structured; how they reward their best performers and how they improve the performance of those who are struggling; and how they provide opportunities for the best performers to acquire more status and responsibility. Many of the world's best-performing education systems have moved from bureaucratic *command and control" environments towards school systems in which the people at the frontline have much more control of the way resources are used, people are deployed, the work is organised and the way in which the work gets done. They provide considerable discretion to school heads and school faculties in determining content and the curriculum, a factor which the report shows to be closely related to school performance when combined with effective accountability systems. And they provide an environment in which teachers work together to frame what they believe to be good practice, conduct field-based research to confirm or disprove the approaches they develop, and then assess their colleagues by the degree to which they use practices proven effective in their classrooms.

Last but not least, the most impressive outcome of world-class education systems is perhaps that they deliver highquality learning consistently across the entire education system, such that every student benefits from excellent learning opportunities. To achieve this, they invest educational resources where they can make the greatest difference, they attract the most talented teachers into the most challenging classrooms, and they establish effective spending choices that prioritise the quality of teachers.

These are, of course, not independently conceived and executed policies. They need to be aligned across all aspects of the system, they need to be coherent over sustained periods of time, and they need to be consistently implemented. The path of reform can be fraught with political and practical obstacles. Moving away from administrative and bureaucratic control toward professional norms of control can be counterproductive if a nation does not yet have teachers and schools with the capacity to implement these policies and practices. Pushing authority down to lower levels can be as problematic if there is not agreement on what the students need to know and should be able to do. Recruiting high-quality teachers is not of much use if those who are recruited are so frustrated by what they perceive to be a mindless system of initial teacher education that they will not participate in it and turn to another profession. Thus a country's success in making these transitions depends greatly on the degree to which it is successful in creating and executing plans that, at any given time, produce the maximum coherence in the system.

These are daunting challenges and thus devising effective education policies will become ever more difficult as schools need to prepare students to deal with more rapid change than ever before, for jobs that have not yet been created, to use technologies that have not yet been invented and to solve economic and social challenges that we do not yet know will arise. But those school systems that do well today, as well as those that have shown rapid improvement, demonstrate that it can be done. The world is indifferent to tradition and past reputations, unforgiving of frailty and complacency and ignorant of custom or practice. Success will go to those individuals and countries that are swift to adapt, slow to complain and open to change. The task of governments will be to ensure that countries rise to this challenge. The OECD will continue to support their efforts.

This report is the product of a collaborative effort between the countries participating in PISA, the experts and institutions working within the framework of the PISA Consortium, and the OECD Secretariat. The report was drafted by Andreas Schleicher, Francesca Borgonovi, Michael Davidson, Miyako Ikeda, Maciej Jakubowski, Guillermo Montt, Sophie Vayssettes and Pablo Zoido of the OECD Directorate for Education, with advice as well as analytical and editorial support from Marilyn Achiron, Simone Bloem, Marika Boiron, Henry Braun, Nihad Bunar, Niccolina Clements, Jude Cosgrove, John Cresswell, Aletta Grisay, Donald Hirsch, David Kaplan, Henry Levin, Juliette Mendelovitz, Christian Monseur, Soojin Park, Pasi Reinikainen, Mebrak Tareke, Elisabeth Villoutreix and Allan Wigfield. Volume II also draws on the analytic work undertaken by Jaap Scheerens and Douglas Willms in the context of PISA 2000. Administrative support was provided by Juliet Evans and Diana Morales.

The PISA assessment instruments and the data underlying the report were prepared by the PISA Consortium, under the direction of Raymond Adams at the Australian Council for Educational Research (ACER) and Henk Moelands from the Dutch National Institute for Educational Measurement (CITO). The expert group that guided the preparation of the reading assessment framework and instruments was chaired by Irwin Kirsch.

The development of the report was steered by the PISA Governing Board, which is chaired by Lorna Bertrand (United Kingdom), with Beno Csapo (Hungary), Daniel McGrath (United States) and Ryo Watanabe (Japan) as vice chairs. Annex C of the volumes lists the members of the various PISA bodies, as well as the individual experts and consultants who have contributed to this report and to PISA in general.

> Angel Gurría OECD Secretary-General





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This book has...



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Executive Summary

PISAs conception of reading literacy encompasses the range of situations in which people read, the different ways written tests are presented, and the variety of ways that readers approach and use tests, from the functional and finite, such as finiting, a particular price of practical information, to the deep and fair searching, such as understanding other ways of doing, thinking and being. Research shows that these kinds of reading literacy skills are more reliable conditions of economic and social well believe than the number of vasts seem its school or in ost offermal education.

Korea and Finland are the highest performing OECD countries, with mean scores of 539 and 536 points, respectively. However, the partner economy Shanghai-China outperforms them by a significant margin, with a mean score of 556.

Top-performing countries or concomies in reading literacy include Hong Kong-China (with a mean score of 333), singapone (526), Canada (524), New Zealand (521), Ispan (520) and Australia (513). The Netherlands (508), Bolgium (506), Norway (503), Estonia (501), Switzerland (501), Poland (500), Reland (500) and Liechtenstein (499) also perform above the OECD mean score of 494, while the United States, Sweden, Germany, Ireland, France, Denmark, the United Kinedon, Humann, Portunal, and naturary concomp. Chinese Sainei have correct fost of the OFCD mean.

The lowest performing OFCD country, Mexico, has an average some of 425. This means that the gap between the highest and lowest performing OFCD countries is 11 a points—more than the equivalent of two school years. And by gap between the highest and lowest performing partner country or economy is even large, with 242 core points—or more than six years of formal schooling—expearing the mean performance of Sharghai-Clinia and Knygystard than

Differences between countries represent, however, only a fraction of overall variation in student performance. Addressing the educational needs of such diverse populations and narrowing the gaps in student performance that have been observed remains a formidable challenge for all countries.

In 18 participating countries, including Mexico, Chile and Turkey, the highest reading proficiency level achieved by most students was the baseline Level 2.

Level 2 is considered a baseline level of proficerors, at which students begin to demonstrate the reading skills that will enable them to participate effectively and productively in life. Students who do not reach level 2 have difficulties locating basic information that meets several conditions, making comparisons or contrasts around a single feature, working out what a welf-lefined part of a test means when the information is not prominent, or making connections between the test and outside browledge by drawing on personal experience and attitudes. The proportion of 17-year-olds in this students was variety deverse countries, from fewer than one in 10 in four countries and economies to the majority of students in 10 countries. Even in the average OCCD country, where mostly one student in the does not next level 2, tacking such low performance emains a major challenge.

At the other end of the proficiency spectrum, an average of 7.6% of students attain Level 5, and in Singapore, New Zealand and Shanghai-China the percentage is above twice the OECD average.

However, for some countries, developing even a small caps of high-performing students remains an aspisator: in fit focuntries, fewer than '15 of students' reach tevel 5. Students at this level are able to retrieve information requiring methor the reader to locate and organise several pieces of deeply embedded information, inferring which information in the reader to locate and organise several pieces of deeply embedded information, inferring which information in the reader to locate and organise several pieces of except several build hypotheses charging on specialized lownvledge, develop a full and destalled understanding of a text whose content or form is unfamiliar, and understand concepts that are contarts to expectations.

EXECUTIVE SUMMARY



Results from the PISA 2009 assessment show that nurturing high performance and tackling low performance need not be mutually exclusive. The countries with the very highest overall reading performance in PISA 2009, Finland and Korea, as well as the partner economies Hong Kong-China and Shanghai-China, also have among the lowest variation in student scores. Equally importantly, Korea has been able to raise its already-high reading performance even further, by more than doubling the percentage of students reaching Level 5 or higher since 2000.

Korea, with a country mean of 546 score points, performed highest among OECD countries in the PISA 2009 mathematics assessment. The partner countries and economies Shanghai-China, Singapore and Hong Kong-China rank first, second and third, respectively.

In the PISA 2009 mathematics assessment, the OECD countries Finland, Switzerland, Japan, Canada, the Netherlands, New Zealand, Belgium, Australia, Germany, Estonia, Iceland, Denmark, Slovenia as well as the partner countries and economies Chinese Taipei, Liechtenstein and Macao-China also perform significantly above the OECD average in mathematics.

Shanghai-China, Finland, Hong Kong-China and Singapore are the four highest performers in the PISA 2009 science assessment.

In science, New Zealand, Canada, Estonia, Australia, the Netherlands, Germany, Switzerland, the United Kingdom, Slovenia, Poland, Ireland and Belgium as well as the partner countries and economies Chinese Taipei, Liechtenstein and Macao-China also perform significantly above the OECD average.

Some 14.6% of students in Shanghai-China and 12.3% of students in Singapore attain the highest levels of proficiency in all three assessment subjects.

High-level skills are critical for innovation and, as such, are key to economic growth and social development. On average, across OECD countries, 16.3% of students are top performers in at least one of the subject areas of science, mathematics or reading. However, only 4.1% of 15-year-old students are top performers in all three assessment subject areas.

Girls outperform boys in reading skills in every participating country.

Throughout much of the 20th century, concern about gender differences in education focused on girls' underachievement. More recently, however, the scrutiny has shifted to boys' underachievement in reading. In the PISA 2009 reading assessment, girls outperform boys in every participating country by an average, among OECD countries, of 39 PISA score points - equivalent to more than half a proficiency level or one year of schooling.

On average across QECD countries, boys outperform girls in mathematics by 12 score points while gender differences in science performance tend to be small, both in absolute terms and when compared with the large gender gap in reading performance and the more moderate gender gap in mathematics. The ranks of top-performing students are filled nearly equally with girls and boys. On average across OECD countries, 4.4% of girls and 3.8% of boys are top performers in all three subjects, and 15.6% of girls and 17.0% of boys are top performers in at least one subject. area. While the gender gap among top-performing students is small in science (1% of girls and 1.5% of boys), it is significant in reading (2.8% of girls and 0.5% of boys) and in mathematics (3.4% of girls and 6.6% of boys).

Countries of similar prosperity can produce very different educational results.

The balance of proficiency in some of the richer countries in PISA looks very different from that of some of the poorer countries. In reading, for example, the ten countries in which the majority of students are at Level 1 or below, all in poorer parts of the world, contrast starkly in profile with the 34 OECD countries, where on average a majority attains at least Level 3. However, the fact that the best-performing country or economy in the 2009 assessment is Shanghai-China, with a GDP per capita well below the OECD average, underlines that low national income is not incompatible with strong educational performance. Korea, which is the best-performing OECD country, also has a GDP per capita below the OECD average. Indeed, while there is a correlation between GDP per capita and educational performance, this only predicts 6% of the differences in average student performance across countries. The other 94% of differences reflect the fact that two countries of similar prosperity can produce very different educational results. Results also vary when substituting spending per student, relative poverty or the share of students with an immigrant background for GDP per capita.

The following table summarises the key data of this volume. For each country, It shows the average score of 15-yearolds in reading, mathematics and science as well as on the subscales that were used to measure reading skills in greater detail. Cells shaded in light blue indicate values above the OECD average. Cells shaded in medium blue indicate values below the OECD average. Cells shaded in dark blue indicate values that are not statistically different from the OECD average.



Table LA COMPARING COUNTRIES' PERFORMANCE

Statistically ogniticantly above the OECD average
Not statistically significantly different from the OECD average
Statistically significantly below the OECD average

		On the reading subscales						
	On the overall reading scale	Access and estrieve	Integrate and interpret	Reflect and evaluate	Continuous	Non-continuous trafs	On the mathematics scale	On the science
Shanghri-China	556	549	558	557	564	539	600	575
Korea	539	542	541	542	538	542	546	538
Finland	536	532	538	534	535	535	541	554
Hong Kong-China	533	510	530	540	538	522	555	549
Singapore	526	526	525	529	522	539	562	542
Canada	524	517	522	535	524	527	527	529
New Zealand	521	521	517	531	518	532	519	532
Japan	520	530	520	521	520	518	529	539
Australia	515	513	513	523		524	514	
Netherlands	508	519	504	510	506	514	526	522
Belgium	506	513	504	503	504	511	515	507
Norway	503	512	502	505	505	498	458	500
Estonia.	501	503	500	503	497	512		528
Switzerland	501	.505	502	497	498	505	534	517
Poland	500	500	503	498	502	496	195	508
iceland	500	507	503	496	501	499	507	496
United States	500	492	495	512	500	503	487	502
Liechtenstein	499	508	498	498	495	506	516	520
Sweden	497	505	494 /	502	499	498	494	495
Germany		501	501	491				520
Ireland	496	498	494	502	497	496	487	508
france	496	492	497	495	492	498	- 497	498
Chinese Taiper	495	496	497	493	496	500	543	520 499
Denmark	495			493		506		199
United Kingdom		191	491		492		492	
Hungary	494	501	496	189	497	487	490	503
Portugal Macao-China	489	498	455	496	492	488 ,	525	511
Macan-Caus Maly	407		490	482	400	401	525	400
Latina	484	482 476	490	482	485	476	483	489
Slovenia	484	459	489	470	454	476	501	512
Sovenia Grece	483	468	489	470	487	475	466	470
Spain	481	490	481	483	656	473	683	488
Czech Republic	478	479	188	462	479	474	493	500
Slovak Republic	477	491	481	466	479	471	497	490
Creatu	476	492	472	471	478	472	460	486
tsrael	474	463	473	483	477	467	667	455
Luxembourg	472	421	475	471	421	472	489	484
Austria	470	477	471	461	470	472	426	494
Lithumia	468	476	169	463	470	462		491
Turkey	464	467	459	473	466	461	445	656
Dubai (UAE)	459	458		466	461	160	453	166
Russian Federation	459	469	467	441	461	452	460	478
Chile	449	444	452	452	453	444	421	447
Serbia	442	449	645	430	444	438	442	443
Dulgaria	429	430	436	417	433	421	428	439
Uruguay	426	424	423	416	429	421	427	427
Mexico	425	433	418	432	426	424	419	416
Romania	424	423	425	426	423	424	427	428
Tholand	421	431	416	420	423	423	419	425
Triridad and Tobago	416	413	419	413	418	417	414	410
Colombia	413	404	411	422		409	381	402
Bozil	412	407	406	424	414	408	386	405
Mostenegro	408	408	420	383	411	398	403	401
Jordan	405	394	410	407	417	387	387	415
Tunisia	404	393	393	427	408	393		401
Indonesia	402	399	397	409	405	399	371	383
Argentina	398	394	398	402	400	391	388	401
Kazakhstan	390	397	397	373	399	371	405	400
Albania	385	380	393	376	392	366	377	391
Quiter	372	354	379	376	375	361	368	379
Panama	371	363	372	377	373	359	360	376
Peru.	370	364		368	374	356	365	369
Azerbaijan	362	361	373	335	362	351	431	
Kyrgyzstan	314	299	327	300	319	293	331	330

Source OECD, PISA 2009 Database Station Web http://dx.doi.org/10.1787/880932343342





Introduction

The Programme for International Student Assessment (PSA) reviews the center to which students near the end of computory exclusion has been acquired some of the knowledge and skills that are essential for full participation in modern societies, the section of the Programme, including societies, the section of the programme, including societies, which to counters participate and which students are essential for the successful societies of societies and consideration of skills are measured and how and so what extent PSA 2009 differs from previous PSA assessments.





PISA 2009: Focus on reading

Are students well prepared to meet the challenges of the future? Can they analyse, reason and communicate their ideas effectively? Have they found the kinds of interests they can pusus throughout their lives a productive members of the economy and society? The OFCD Programme for International Student Assessment (PSA) seeks to answer these questions through its triental surveys of key completencies of 15 year-old students in OFCD member countries and partner countries/conomies. Together, the group of countries participating in PISA represents nearly 90% of the world economy.

PISA assesses the extent to which students near the end of compulsory education have acquired some of the knowledge and skills that are essential for full participation in modern societies, with a focus on reading, mathematics and science, PISA seeks to assess not merely whether students can reproduce knowledge, but also to examine how well they can extrapolate from what they have learned and apply it in unfamiliar settings, both in and outside of school.

PISA has now completed its fourth round of surveys. Following the detailed assessment of each of PISA's three main subjects – neading, mathematics and science – in 2000, 2003 and 2006, the 2009 survey marks the beginning of a new round with a return to a focus on reading, but in ways that reflect the extent to which reading has changed since 2000, including the prevalence of digital texts.

Success in reading provides the foundation for achievement in other subject areas and for full participation in adult. (The ability to convey information in written form, as well as oally, is one of humanishing squarest assets. The discovery that information can be shared across time and space, without the limits of the steength of one's voice, the size of a wenue and the accuracy of memory, has been fundamental to human progress. And yet, learning how to read and writter equivalent engines editor because it cannot be achieved without mastering a collection of complex skills. The brain is biologically primed to acquire language, but writing and reading are relatively recent achievements in human history. Becoming a proficient reador is a seal that requires senticle and dedication.

To date, PISA 2009 offers the most comprehensive and rigorous international measurement of student reading skills. It assesses not only reading knowledge and skills, but also students' attitudes and their learning strategies in reading. PISA 2009 also updates the assessment of student performance in mathematics and science.

This report presents the results of PISA 2009. For easier access to information on specific areas examined in PISA, the report is published in six volumes. A description of the contents of each volume appears in the section "Reporting results from PISA 2009", below.

The PISA surveys

PISA focuses on young people's ability to use their knowledge and skills to meet real-life challenges. This orientation reflects a change in the goals and objectives of curricula themselves, which are increasingly concerned with what students can do with what they learn at school and not merely with whether they have mastered specific curricular content.

PISA's unique features include its:

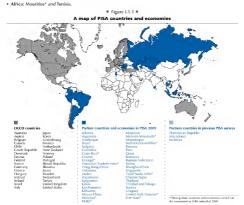
- Policy orientation, which connects data on student learning outcomes with data on students' characteristics and not key factors baping their learning is and out of school in order to draw attention to differences in performance patterns and to identify the characteristics of students, schools and education systems that have high performance standards.
- Innovative concept of "filteracy", which refers to the capacity of students to apply knowledge and skills in key subject areas and to analyse, reason and communicate effectively as they pose, interpret and solve problems in a variety of situations.
- Relevance to lifelong learning, which does not limit PISA to assessing students' competencies in school subjects, but also asks them to report on their own motivation to learn, their beliefs about themselves and their learning strategies.
- . Regularity, which enables countries to monitor their progress in meeting key learning objectives.
- Breadth of geographical coverage and collaborative nature, which, in PISA 2009, encompasses the 34 OECD member countries and 41 nature countries and economies.²



The relevance of the knowledge and skills measured by PISA is confirmed by studies tracking young people in the years after they have been assessed by PISA. Longitudinal studies in Australia, Canada and Switzerland display a strong relationship between performance in reading in the PISA assessment at age 15 and future educational attainment and success in the labour market (see also Chapter 2).3

Decisions about the scope and nature of the PISA assessments and the background information to be collected are made by leading experts in participating countries. Governments guide these decisions based on shared, policy-driven interests. Considerable efforts and resources are devoted to achieving cultural and linguistic breadth and balance in assessment materials. Stringent quality-assurance mechanisms are applied in designing the test, in translation, sampling and data collection. As a result, PISA findings have a high degree of validity and reliability. Through them, learning outcomes in the world's most economically advanced countries, as well as those in earlier stages of economic development, can be better understood and compared. Although it was OECD countries that originally created PISA, it has now become a major assessment tool in many regions around the world. Beyond OECD member countries, the survey has been completed or is currently being conducted (i.e. in countries marked by an asterisk) in:

- East and Southeast Asia: Himachal Pradesh-India*, Hong Kong-China, Indonesia, Macao-China, Malaysia*, Shanghai-China, Singapore, Chinese Taipei, Tamil Nadu-India*, Thailand and Viet Nam*.
- Central, Mediterranean and Eastern Europe, and Central Asia: Albania, Azerbaijan, Bulgaria, Croatia, Georgia* Kazakhstan, Kyrgyzstan, Latvia, Liechtenstein, Lithuania, Macedonia, Malta*, Moldova, Montenegro, Romania, the Russian Federation and Serbia.
- The Middle East: Jordan, Oatar and the United Arab Emirates.
- Central and South America: Argentina, Brazil, Colombia, Costa Rica*, Netherlands-Antilles*, Panama, Peru, Trinidad and Tobago, Uruguay and Miranda-Venezuela*.





Policy makers around the world use PISA findings to gauge the knowledge and skills of students in their own country in comparison with those of other countries. PISA reveals what is possible in education by showing what students in the highest performing countries can do. PISA is also used to gauge the pace of educational progress by allowing policy makers to assess the extent to which performance changes observed nationally are in line with performance changes observed elsewhere. In a growing number of countries, PISA is also used to set policy targets against measurable goals achieved by other systems, to initiate research and peer learning designed to identify policy levers and to reform trajectories for improving education. While PISA cannot identify cause-and-effect relationships between inputs, processes and educational outcomes, it can highlight key features in which education systems are similar and different, sharing those findings with educators, policy makers and the general public.

Box I.1.1 Kev features of PISA 2009

Content

- The main focus of PISA 2009 was reading. The survey also updated performance assessments in mathematics and science. PISA considers students' knowledge in these areas not in isolation, but in relation to their ability to reflect on their knowledge and experience, and to apply them to real-world issues. The emphasis is on mastering processes, understanding concepts and functioning in various situations within each assessment area.
- . For the first time, the PISA 2009 survey also assessed 15-year-old students' ability to read, understand and apply digital texts.

Methods

- Around 470 000 students completed the assessment in 2009, representing about 26 million 15-year-olds in the schools of the 65 participating countries and economies. Some 50 000 students took part in a second round of this assessment in 2010, representing about 2 million 15 year-olds from 9 additional partner countries and economies.
- Each participating student spent two hours carrying out pencil-and-paper tasks in reading, mathematics and science. In 20 countries, students were given additional questions via computer to assess their capacity to read digital texts.
- The assessment included tasks requiring students to construct their own answers as well as multiple-choice questions. The latter were typically organised in units based on a written passage or graphic, much like the kind of texts or figures that students might encounter in real life.
- Students also answered a questionnaire that took about 30 minutes to complete. This questionnaire focused on their personal background, their learning habits, their attitudes towards reading, and their engagement and motivation
- · School principals completed a questionnaire about their school that included demographic characteristics and an assessment of the quality of the learning environment at school.

Outcomes

PISA 2009 results provide:

- · A profile of knowledge and skills among 15-year-olds in 2009, consisting of a detailed profile for reading, including digital literacy, and an update for mathematics and science.
- · Contextual indicators relating performance results to student and school characteristics.
- An assessment of students' engagement in reading activities, and their knowledge and use of different learning strategies.
- · A knowledge base for policy research and analysis.
- . Trend data on changes in student knowledge and skills in reading, mathematics and science, on change in student attitudes and in socio-economic indicators, and also on the impact of some indicators on the performance results.

Future assessments

- . The PISA 2012 survey will return to mathematics as the major assessment area; PISA 2015 will focus on science. Thereafter, PISA will turn to another cycle, beginning with reading again.
- · Future tests will place greater emphasis on assessing students' capacity to read and understand digital texts and solve problems given in a digital format, reflecting the importance of information and computer technologies in modern societies.



Interest in PISA is illustrated by the many reports produced in participating countries, "numerous references to PISA results in public debates and the intense media attention PISA attacts throughout the world. A number of countries have also begun developing and administering PISA-related assessments, either as part of or, in addition to their national assessments.

WHAT IS DIFFERENT ABOUT THE PISA 2009 SURVEY?

A new profile of how well students read

In 2009, PISA modified and enhanced the way in which reading was assessed by revising the framework used in PISA 2000 and tailoring it to address the changes in analysing how people read. PISA 2000 looked at how well students retrieved information; PISA 2009 also looked at how well they accessed it. PISA 2000 looked at how well students interpreted what they read; PISA 2009 also looked at how well they integrated it. Like PISA 2000, PISA 2009 considered how students reflected on an established what they read.

An assessment of reading digital texts

PISA first ventured into computer-based assessments in the subject of science in 2006. This was followed, in 2009, by an assessment of how well students read digital texts. Twenty countries opted to undertake this assessment. Students were given a number of different types of questions that simulated how they would use digital texts to acquire information. For example, they were required to use a search engine and to make choices regarding key works and the correct pages in order to answer the question.

More detailed assessment of a wider range of student abilities

In previous PSA surveys, a number of countries scored well below the OECD mean and had large percentages of students scoring below the range of described proficions; by belos. In PSA 2009, a new set of reading lives, saited for more basic reading skills, was developed in order to better describe the performance of lower-performing students. Some countries optical to include these new iltems and were given booklets that were adapted to assess more basic reading skills. The proficiency levels were also extended to obtain more detailed descriptions of high-performing students and to identify highest-performing students.

More emphasis on educational progress

Since PSA has now been implemented for a decade, it is possible to explore not just where countries stand in terms of student performance, but also how bearing outcomes or gaps between higher and lower-performing students are changing. Every three years, PSA measures student knowledge and skills in reading, mathematics and science, covering each of these areas once as a major focus and twice as a minor area across a nine-year cycle. The basic survey design remains constant to allow for comparability from one PSA assessment to the next. In the long term, this will allow countries to relate policy changes to improvements in educational standards and to learn more about how changes in educational outcomes compara with international benchmark.

The 2009 round marks the first time in PRSA that reading has been re-assessed in detail. This provides an opportunity for countries to evaluate, in detail, changes that may have occurred in the rine years since the assessments were first administered. A number of the reading items from PISA 2000 have remained the same throughout the years, and so need to be the plot to give a measure of change over time.

Introducing new background information about students

Because the data on students' engagement in reading activities, knowledge and use of different learning strategies provided favourable policy insights in 2000, an improved version of this topic reappeared in 2009:

- Students were asked about the techniques they used to learn, particularly how they understood and learned concepts or texts and what approaches they used to summarise texts, and their awareness of and ability to use a variety of strategies when processing texts.
- Given the close association between students' reading proficiency and their engagement in reading activities observed previously, students were asked whether and how their teachers provided stimulation to become engaged in reading.
- New questions asked students whether or not they used libraries for borrowing books, reading or for using the Internet.
- Modifications were made to the questionnaires to better reflect the ways in which 15-year-olds use new technologies.
 For example, there were new questions about how students use new technologies for the Internet and entertainment.
 Students in 44 countries' completed this optional PISA questionnaire.



WHAT PISA MEASURES AND HOW

International experts from participating countries developed a framework and conceptual underpinning for each assessment area in PSA. Following consultations, these frameworks were adopted by the governments of the participating countries (OCCD, 1999; OCCD, 2003; OCCD, 2006; OCCD, 2009). The framework starts with the concept of literacy, which includes students' capacity to estrapolate from what they have learned and apply their knowledge in real-life settings, and their capacity to analyse, reason and communicate effectively as they pose, interpret and solve problems in a variety of situations.

The concept of reading literacy used in PISA is much broader than the historical notion of the ability to read. It is measured on a continuum, not as something that an Individual either has or does not have. While it may be necessary or desirable to define a point on a literacy continuum below which levels of competence are considered inadequate, PISA charts continuous gradations of performance above and below such a threshold.

PISA also aims to examine students' learning strategies, their competencies in areas such as problem solving that involves multiple disciplines and their interests in different tepics. This fixed of broader assessment started in PISA 2000, which asked students about their motivation and other aspects of their attitudes towards learning, their familiarity with computers and, under the heading 'self-ergulated learning', about their strategies for managing and monitoring their own education. The assessment of students' motivations and attitudes confused in PISA 2006, with special attention given to students' attitudes towards and interest in science. Returning to reading as the major subject of assessment PISA 2009 (souch on students' engagement in reading activities and their understanding about their own reading and learning strategies. This is elaborated in detail in Volume III, Learning to Learn.

Performance in PISA: What is measured

PISA 2009 defines the areas of assessment within a framework that includes:

- knowledge in each subject that students need to apply;
- · competencies in each subject that students need to apply;
- · contexts in which students encounter problems; and
- · students' attitudes and dispositions towards learning.

The frameworks for assessing reading, mathematics and science in 2009 accessed in full in PSA 2009. Assessment Framework: Exp Competencies in Reading, Mathematics accessed science (OECLO, 2009), and summarios in Volume I. Figure 1.1.2 below also summarises the core definition of each assessment area and how the first three of the above four dimensions are developed in each classification.

The PISA instruments: How skills are measured

As in carlier PEA surveys, the assessment instruments in PEA, 2009 were developed around units. A unit consists of stimulus material, including texts, lauguants, tubels audior graphs, followed by questions on various aspects the text, disgram, tuble or graph, with the questions constructed so that tasks students had to undertake were as close as possible to those they night come across in the real world.

The questions warded in format, Around hill were multiple-choice questions in which students made either question from among four of the given alternatives (single multiple-choice) or chose one of the present personal p



■ Figure I.1.2 ■

	Summary of the	assessment areas in PISA 2	009
	READING	MATHEMATICS	SCIENCE
Definition and its distinctive features	The capacity of an individual to understand, use, reflect on and engage with within taxon in and engage with within taxon in and engage with within taxon in a considerable part of the engage with engage with engage with the engage within the engage within the engage with the engage wit	The capacity of an individual to formulate, employ and interpret authensities in a fine pret authensities in a fine pret authensities in a fine pret authensities and an extraording authensities and using enthematical concepts, using mathematical concepts, of the control of th	The central to wisch, an individual Processors in the Newderge and uses that Incondedge and uses that Incondedge and uses that Incondedge to dealingly quadrative, suggested that Incondedge to the Incondedge to
Knowledge domain	The form of reading materials: **Continuous tents: including different kinds of proce such different kinds of proce such argumentation, argumentation, argumentation. **Non-continuous tents: including sopphs, forms and lists **Maked tents: including both continuous and non-continuous forms, and the continuous forms and the con	Clusters of relevant mathematical areas and concepts: • Quantity • Spuce and shape • Change and relationships • Uncertainty	Knowledge of science, such as: "Physical systems" "Inving systems" "Itania and space systems" "Technology systems" "Technology systems" Knowledge about science, such as "Scientific explanations"
Competencies involved	Type of reading tasks or processes: Access and retrieve Integrate and interpret Reflect and evaluate Complex – e.g. finding, evaluating and integrating information from multiple electronic texts	Competency clusters define skills needed for mathematics: Reproduction (simple mathematical operations) Contections (bringing together ideas to solve straightforward problems) Reflection (wider mathematical thinking)	Type of scientific tasks or processes: • Identifying scientific issues • Explaining scientific phenomena • Using scientific evidence
Context and situation	The use for which the text is constructed: • Personal • Educational • Occupational • Public	The area of application of mathematics, focusing on uses in relation to personal, social and global settings, such as: • Personal • Educational and occupational • Public • Scientific	The area of application of science, focusing on uses in relation to personal, social and global settings, such as: "Health" "Natural resources" "Environment" "Heazard" "Frontiers of science and technology



The remaining lest questions required students to construct their own responses, based on a very limited range of possible responses (closed-constructed response) that were correct as either correct or increment. The presentages of the different question formats varied across different subjects and can be found in the FFA2009 Fechnical Report of (CCEL), forthcoming). Scoring the answers to 1978A question is governed by stirt attherence to an internationally agreed coding guide that establishes codes that are then assigned to various responses. It is implemented by tained psycholiat coders, some questions can be assigned along various responses. It is implemented by tained the psychialist coders. Some questions can be assigned simply a closely as designed to various responses. It is implemented by tained the question were coded independently by four coders. It addition, a usk-amplie partial credit is given for partly correct to rise sophistic acids answers in other questions. To ensure consideracy in the coding process, a proportion of the questions were coded independently by four coders. It addition, a usk-amplied of shadent response from each transport of the process of the coding process of the coding process. The results show that considerer coding was achieved across countries, for deciding on the coding process, see the FFAS code feets all features (CCEL) softhermations.

The total assessment time of 390 minutes was organised in different combinations in 13 linked testing booklets, with each individual tested for 120 minutes. The total time devoted both assessment of reading across all the booklets was 210 minutes 614% of the total), 90 minutes were devoted to mathematics (23% of the total) and 90 minutes to science (23% of the total). Each student was randomly assigned one of the 13 test booklets.

The PISA student population

In order to ensure the companibility of the results across countries, PSA devoted a great deal of attention to assessing companible target populations. Differences between countries in the nature and extent of pre-primary education and care, in the age of entry to formal schooling, and in the structure of the education system do not allow school grade beeks to be defined so that they are internationally companible. Valid international comparisons of educational performance, therefore, need to define their populations with reference to a target age, PSA covers students who are aged between 15 years 3 months and 16 years 2 months at the time of the assessment, and who have completed at least 6 years of formal schooling, regardless of the type of institution in which they are enrolled, whether they are in full-line or part interned exclusion, whether they are in full-line or part interned exclusion, whether they atten ducabling or variously and whether they are in full-line or part interned exclusion, whether they atten ducabling or variously and whether they atten ducablines or private schools or foreign schools within the country, (70 or an operational definition of this traget population, see the PSA 2009 Fechnical Appen (FOEC). Softenoning). The use of his is agin PSA, across countries and over time, allows the performance of students to be compared in a consistent manner before they complete consolion or education.

As a restl. this report can make statements about the knowledge and skills of individuals born in the same year who are still at school at 15 years of age, despite having different educational experiences, both within and outside school. The number of school grades in which these students are found depends on a country's policies on school entry and promotion. In some countries, students in the PISA target population represent different education systems, tacks or streams.

Stringent technical standards were established to define the national target populations and to identify permissible exclusions from this definition for more information, see the PSA website servepsis.coed.org.). The overall exclusions rate within a country was required to be below 5% to ensure that, under reasonable assumptions, any distortions in national mean scores would remain within place or misus 5 score points, fee, bytachly within the order or magnitude of 2 standard errors of sampling toe Box 1.1.2; Exclusion could take place either through the schools that participated or the students who participated within schools. There are several reasons why a school or a student could be excluded be excluded from PSA. Schools might be excluded because they are situated in remote regions and are inaccessible or because they are yes mall, or because of organisational or operational factors that precluded participation. Students might be excluded because of intellectual disability or limited proficiency in the language of the assessment.

In 29 not of the 5 Countries participating in 198A, 2009, the precentage of school-level exclusions amounted to less than 15% in two sensitions. When the exclusion of sudered with one that the internationally stabilisted exclusion criteria is also taken into account, the exclusion takes increase slightly. However, the overall exclusion rate remains below 2% in 122 participating countries, above 5% in 602 participation of 602 par



Restrictions on the level of exclusions in PISA 2009:

- School-level exclusions for inaccessfulling feasibility or other reasons were required not to exceed 0.5% of the total runnines of students in the international PSA target population. Schools on the sampling frame that had only was considered to the precentage of students in these schools would not cause a bronch of the 0.5% allowable limit, then such schools could be excluded in the field, if at that time they still had only one or two students who were livelike for PSA.
- School-level exclusions for students with intellectual or functional disabilities, or students with limited proficiency
 in the language of the PISA assessment, were required not to exceed 2% of students.
- Within-school exclusions for students with intellectual or functional disabilities, or students with limited language proficiency were required not to exceed 2.5% of students.

Within schools in PISA 2009, students who could be excluded were:

- Intellectually disabled underth, defined as students who are considered, in the professional opinion of the school principal, or by other qualified staff members, to be intellectually disabled, or who have been assessed psychologically as such. This category includes students who are emotionally or mentally unable to follow even the general instructions of the assessment. Students were not to be excluded solely because of poor academic performance or common discipline problems.
- Students with functional disabilities, defined as students who are permanently physically disabled in such a way
 that they cannot perform in the PISA testing situation. Students with functional disabilities who could perform
 were to be included in the testing.
- Students with limited proficiency in the language of the PISA assessment, defined as students who had received less than one year of instruction in the language of the assessment.

Box I.1.2 The population covered and the students excluded

The PSA assessment aims to be as inclusive as possible. For the definition of national target populations, PSA excludes 15-year-olds on termolled in any form of educational institution. In the remainder of this report, the term 15-year-olds' is used to denote the PSA student population. The percentage of the target population of 15-year-olds within education covered by PSAs is very high compared with other international survey relatively few schools were excluded from participation. Within schools, exclusions of students remained below 2% in most and below 2% in most of the exclusions were unavoidable. The high level of coverage contributes to the comparability of the assessment results. The effect of students exclusions his national means crost evolute of (inverse) correlation between a student's performance and international remains considerable to the correlation of 0.5, exclusion rates below 3% would be coverainanted by less than 5 scene points, with a onen modest correlation of 0.3, it would be below 3 scene points. For this calculation, a model was used that assumes a bioxistate normal distribution for the propensity to participates and performance.

The specific sample design and size for each country aimed to maximise sampling efficiency for student-level sestimates. In OECO countries, sample sizes ranged from 4 All students in lecked to 32 250 students in Mexico. Countries with large samples have often implemented PISA both at national and regional/state levels (e.g. Australia, Belgium, Caruda, Islay, Mexico, Spain, Switzerland and the United Kingdomi, The selection of samples was monitored internationally and adhered to pispous standards for the participation rats both among schools selected by the international contractor and among students within these schools, to ensure that the PISA results reflect the slids of the 15-yac-ord students in participating countries. Countries were also required to administer the test to students in identical ways to ensure that students receive the same information prior to and during the assessment (Box 11.3).



Box 1.1.3 How a PISA test is typically carried out in a school

When a school has been selected to participate in PSSA, a school co-ordinator is appointed. The school co-ordinator complex as list of all 15'-year-olds in the school and sends this list to the PSSA Nistional Certer in the country, which randomly selects 35' students to participate. The school co-ordinator then contacts the students who have been selected for the sample and obtains the necessary permissions from parents. The testing session is usually conducted by a lest administrator who is trained and employed by the National Centre. The testing ession administrator contacts the school co-ordinator to schedule administration of the assessment. The school co-ordinator ensures that the students attend the testing sessions. This can sometimes be difficult because students may come from different gades. In different classes, the test administrator or primary tasks are to ensure that he such test booklet is distributed to the cornect student and to introduce the tests to the students. After the test is each test booklet and sends them to the National Centre for codine.

In PISA 2009, 13 different test booklets were used in each country. Each booklet had a different subset of PISA questions, so that students answered overlapping groups of questions, in order to produce a wide range of lest liters while limiting the test time for each student. With 13 different booklets, in each group of 15 students, no more than 3 students were given the same booklets. Booklets were allocated to individual saturdents according to a random selection process. The test administrator's introduction came from a prescribed test so that all students in different schools and countries rescribed eachy the same instructions. Before starting the test, the students were asked to do a practice question from their booklets. The testing session was divided into two parts the two-long test to assess beth knowledge and skills, and the questionnaire session varied across countries, depending on the opposition of their personal background, their learning habits, their attitudes towards reading, and their engagement and mortivation. The length of the questionnaire session varied across countries, depending on the options chosen for inclusion, but generally was about 30 minutes. Students were usually given a short break half-way through the test and again helped they develormed me the test and again helped they develormed me.

REPORTING RESULTS FROM PISA 2009

The results of PISA 2009 are presented in six volumes:

- Volume I. What Students Krow and Can Do: Student Performance in Reading, Mathematics and Science, summarises the performance of students in PSA 2009. It provides the results in the context of how performance is defined, measured and reported, and then examines what students are able to do in reading, After a summary of reading performance, it examines the ways in which this performance varies on subscales representing three aspects of reading, better represent and difference in reading both agreement and for different reading appects and test formats. Any control of difference in reading both generally and for different reading appects and test formats. Any comparison of the outcomes of education systems needs to take into consideration countries' social and economic circumstances, and the resources they devote to education. To address this, the volume also interprese the results within countries' economic and social contexts. The volume also includes with a description of student results in mathematics and science.
- Volume II, Overcoming, Social Background: Equily in Learning Opportunities and Outcomes, starts by closely
 examining the performance variation shown in Volume I, particularly the extent to which the overall variation in
 student performance relates to differences in results achieved by different schools. The volume them holes at how
 factors such as socio-economic background and minigiant satus affect student and school performance, and the
 note that actuation policy can play in moderating the impact of these factors.
- Volume III, Learning to Learn: Student Engagement, Strategies and Practices, explores the information gathered on students' levels of engagement in reading activities and attitudes towards reading and learning. It describes 15-year-olds' motivation, engagement and strategies to learn.
- Volume IV, What Makes a School Successful? Resources, Policies and Practices, explores the relationships between student, school- and system-level characteristics, and educational quality and equity, it explores what schools and school policies can do to raise overall student performance, at, at the same time, moderale the impact of socio-economic background on student performance, with the aim of promoting a more equitable distribution of learning epoptomistics.



- Volume V, Learning Trends: Changes in Student Performance since 2000, provides an overview of trends in student performance in reading, mathematics and science from PISA 2000 to PISA 2009. It shows educational outcomes over time and tracks changes in factors related to student and school performance, such as student background and school characteristics and practices.
- Volume VI, Students On Line: Reading and Using Digital Information, explains how PISA measures and reports student performance in digital reading, and analyses what students in the 20 countries participating in this assessment are able to do.

All data tables referred to in the analysis are included at the end of the respective volumes. A Reader's Guide is also provided in each volume to ald in interpreting the tables and figures accompanying the report.

Technical annexes that describe the construction of the questionnaire indices, sampling issues, quality assurance procedures and the process followed for developing the assessment instruments, as well as information about reliability of coding, are posted on the OECD PSA website (www.psis.oc.dcog). Many of the issues covered in the technical annexes are elaborated in greater detail in the PISA 2009 Technical Report (DECD, forthcoming).



Notes

- 1. The GDP of countries that participated in PISA 2009 represents 87% of the 2007 world GDP. Some of the entities represented in this report are referred to as partner economies. This is because they are not strictly national entities.
- 2. Thirty-one partner countries and economies carried out the assessment in 2009 and ten additional partner countries and economies carried out the assessment in 2010.
- 3. Marks, G.N (2007); Bertschy, K., M. Alejandrea Cattaneo and Stefan C. Wolter (2009); OECD (2010a).
- 4. This report uses the terms Macedonia, Moldova, Montenegro and Serbia to refer, respectively, to the former Yugoslav Republic of Macedonia, the Republic of Moldova, the Republic of Montenegro and the Republic of Serbia.
- S. Visit www.pisa.oecd.org for links to countries' national PISA websites and national PISA reports.
- 6. Australia, Austria, Belgium, Bulgaria, Canada, Chile, Croatia, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hong Kong-China, Hungary, Iceland, Ireland, Israel, Italy, Japan, Jordan, Korea, Latvia, Lithuania, Macao-China, the Netherlands, New Zealand, Norway, Panama, Poland, Fortugal, Oatar, the Russian Federation, Serbia, Singapore, the Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Trinidad and Tobago, Turkey and Uruguay.



Reader's Guide

Data underlying the figures

The data referred to in this volume are presented in Annex B and, in greater detail, on the PISA website (www.pisa.oecd.org).

Five symbols are used to denote missing data:

- a The category does not apply in the country concerned. Data are therefore missing
- c There are too few observations or no observation to provide reliable estimates (i.e. there are fewer than 30 students or less than five schools with valid data).
- m Data are not available. These data were not submitted by the country or were collected but subsequently removed from the publication for technical reasons.
- w Data have been withdrawn or have not been collected at the request of the country concerned.
- x Data are included in another category or column of the table.

Country coverage

This publication features data on 65 countries and economies, including all 34 OECD countries and 31 partner countries and economies (see Figure 1.1.1). The data from another ten partner countries were collected one year later and will be published in 2011.

The statistical data for Israel are supplied by and under the responsibility of the relevant Israeli authorities. The use of such data by the OECD is without prejudice to the status of the Colan Heights, East Jerusalem and Israeli settlements in the West Bank under the terms of international law.

Calculating international averages

An OECD average was calculated for most indicators presented in this report. In the case of some indicators, a total representing the OECD area as a whole was also calculated:

- . The OECD average corresponds to the arithmetic mean of the respective country estimates.
- The OECD total takes the OECD countries as a single entity, to which each country contributes in proportion
 to the number of 15-year-olds enrolled in its schools (see Annex B for data). It illustrates how a country
 compares with the OECD area as a whole.

in this publication, the OECD total is generally used when references are made to the overall situation in the OECD area. Where the focus is on comparing performance cances decadation systems, the OECD awarque is used. In the case of some countries, data may not be available for specific indicators, or specific categories may not apply. Readers should, therefore, keep in mind that the terms "OECD awarque" and "OECD total" refer to the OECD countries included in the respective comparisons.

Rounding figures

Because of rounding, some figures in tables may not exactly add up to the totals. Totals, differences and averages are always calculated on the basis of exact numbers and are rounded only after calculation.

All standard errors in this publication have been rounded to one or two decimal places. Where the value 0.00 is shown, this does not imply that the standard error is zero, but that it is smaller than 0.005.

Reporting student data

The report uses "15-year-olds" as shorthand for the PISA target population. PISA covers students who are aged between 15 years 3 months and 16 years 2 months at the time of assessment and who have completed at least 6 years of formal schooling, regardless of the type of institution in which they are entrolled and of whether they are in full-time or part-time education, of whether they attend academic or vocational programmes, and of whether they attend public or private schools or foreign schools within the country.



Reporting school data

The principals of the schools in which students were assessed provided information on their schools' characteristics by completing a school questionnaire. Where responses from school principals are presented in this publication, they are weighted so that they are proportionate to the number of 15-year-olds enrolled in the school

Focusing on statistically significant differences

This volume discusses only statistically significant differences or changes. These are denoted in darker colours in figures and in bold font in tables. See Annex A3 for further information.

Categorising student performance

This report uses a shorthand to describe students' levels of proficiency in the subjects assessed by PISA:

Top performers are those students proficient at Level 5 or 6 of the assessment Strong performers are those students proficient at Level 4 of the assessment

Moderate performers are those students proficient at Level 2 or 3 of the assessment

Lowest performers are those students proficient below Level 2 of the assessment

Abbreviations used in this report

ESCS PISA index of economic, social and cultural status

GDP Gross domestic product

ISCED International Standard Classification of Education

PPP Purchasing power parity

S.D. Standard deviation

Standard orror S.E.

Further dacumentation

For further information on the PISA assessment instruments and the methods used in PISA, see the PISA 2009 Technical Report (OECD, forthcoming) and the PISA website (www.pisa.oecd.org).

This report uses the OECD's StatLinks service. Below each table and chart is a url leading to a corresponding Excel workbook containing the underlying data. These urls are stable and will remain unchanged over time. In addition, readers of the e-books will be able to click directly on these links and the workbook will open in a separate window, if their Internet browser is open and running.



A Profile of Student Performance in Reading

What can 15-year-olds do as readen? This chapter congrares students performance in reading actions and within countries. It discusses the TRSA declination of the term reading steeps of other earling tables sessionated with earth TRSA proclinesty level. The chapter them days does into the modify peaks, showing gender differences in reading action, students allowing gender differences medig action, said detailing students shall be a self-part of the students and students shall be a self-part of the students shall be a self-part of the students shall be a self-part of the students and students shall be a self-part of the students of the students and the students are students' ability to read and understand continuous and non-continuous manual students.



What do 15 years olds around the world know and what can they do as readers? Can they find what they need in written texts, interpret and use the information, and reflect upon it critically in relation to their own experience and understanding? Can they read different kinds of texts for different purposes and in a variety of contents, either for personal interest and satisfaction or for practical reasons? The assessment of reading in PISA 2009 sets out to answer these questions.

Since reading was the main focus of the PISA 2009 assessment, more detailed probing is possible than was the case in PISA 2000 and PISA 2006, when a relatively small amount of testing time was devoted to reading, in PISA 2009, three-and-s-half hours of test material were dedicated to assessing reading in each participating or country. Reading the first of the assessment areas to be revisited as a major focus or PISA. As such, a full review of the assessment framework and development of assessment instruments was undertaken.¹ A comparison of students' performance in reading over the period 2000 to 2000 is provided in Volume V, Learning Prend.

Box I.2.1 Reading performance and success in adult life

It is now well established that education is associated with enhanced life experience at many levels. Earnings increase with each level of education completed, and the advantage increases with age (OECD, 2010d). The non-economic returns from education in the form of better health and greater social cohesion, indicated by cultural and political participation, are regarded as important benefits alongside economic and labou-market returns. Education is often also considered to contribute to quality of He in its own right."

Levels of reading literacy are more reliable predictors of economic and social well-being than is the quantity of education as measured by years at school or in post-school education. The OECD report, The High Cost of Low Educational Performance, Juses data from PISA and other international assessments to demonstrate that it is the quality of learning outcomes, not the length of schooling, that makes the difference.

The relationship between PSA reading literacy xores and subsequent life outcomes in Canada is also documented in the OCO report Pdatways to Success Port Knowloodege and Skills at Age 15 Shapes Fatore Lives in Canada. Tracking Canadian students who had taken part in the PISA 2000 reading assessment, the study found that, after adjusting for background variables such as parental, xchool, demographic and peoposphic factors, proficiency on the PSA reading literacy scale was associated with a significantly higher likelihood of continuing in education, rather than making the transition to work, or inactivity, by the age of 21.

Figure 1.2.a # Likelihood of participation in tertiary education among 21-year-old Canadians as associated with their PISA reading proficiency and school marks at age 15¹.



After accounting for school engagement, gender, mother tongue, place of residence, potental, education and family income.
 The reference group for the PBA reading proficiency levels is Level 1, and for the marks in reading it is the group that obtained less Source (OECD, 2010a.

StatLink @xx http://dx.doi.org/10.1797/898932343133



The study also found reading scores of 15-year-old students were an important predictor of earnings for both males and females.

While the Canadian study reported longitudinal data only up until the age of 21, a time when many young adults have not yet begun their careers, the benefits to human capital as measured by the PISA reading literacy scale are likely to continue into adulthood.

Data from national and international surveys of adults conducted over the past 20 years both support and extend the Indings shown by Canada. Literacy and numeracy skills have become a currency in modern societies around the world. Those with below-weregge skills cannot hope to earn above-average wages in an increasingly global economy. According to a growing body of data, literacy and numeracy skills influence whether or not individuals will graduate from high school and, if so, whether and where they will go not to higher education. These skills also seem to influence what individuals becore to study in higher education and their pensistence in earning a degree. A university degree, along with literacy and numeracy skills, is also important in influencing the type of plo individuals solvin, as well as the wages and annual income they earn. Literacy and numeracy skills are not only connected with economic returns. Data show that these skills are also associated with the likelihood that individuals will participate in lifeting learning, keep advest of social and publical events, and vote in national elections. Other data suggest that literacy influence decisions many exone for events and the participate in literacy influence decisions many exone for events.

Given the broad range of life experiences with which literacy is associated, including health, well-being, and cultural and political participation, and given that the ain or PSAs is to measure how well education systems are preparing young people for life, the PISA assessment was developed to represent a wide and deep conception of reading. The PISA conception of reading lives are also as the property of the PISA conception of reading lives are which without the test is presented, and the variety of approaches that readers bring to texts, from the functional and finites, such as funding a particular piece of practical information, to the more expansive: reading to learn and understand other ways of doing, thinking, and the bring.

This chapte begins by explaining how PISA measures and reports student performance in reading, and then present the results of the assessment, showing what students know and can do as readers in different countries. This section is followed by a discussion of the results in reading by gender, examining areas of relative strength and weakness for boys and grifts. While the chapter mainly reports on the assessment of reading in the print medium, it also includes a brief section on the assessment of reading digital texts.

Albough PISA conceives of reading both print and digital media as a single construct, the results are reported speately in order to allow countries to observe differences in their students' resulting performance across the two modia. This may primpt discussions about policy changes in resourcing, curriculum and pedagogs, Reading digital tests is different from reading printed tests is important respects: in the small amount of test visible to the reader at any moment, in the amount of test available to the reader, beyond what is immediately visible, and in its demand for using a range of unique navigation tools and features. While this volume focuses on print tests, the reading of digital tests and its relationship with print reading are presented in Volume Vs. Sudents Col Line. The term "reading" used throughout this report denotes the reading of tests printed on paper, unless otherwise specified as digital or electronic reading.



A CONTEXT FOR COMPARING THE PERFORMANCE OF COUNTRIES

Comparing reading performance, and educational performance more generally, poses numerous challenges, When teachers give a reading test in a classroom, they require students with varying abilities, attitudes and social backgrounds to respond to the same set of tasks. When educators compare the performance of schools, they give the same tests across schools that may differ significantly in the structure and sequencing of their curricula, their pedagogical emphases and instructional methods, as well as the demographic and social contexts of their student populations. Comparing the performance of education systems across countries adds further layers of complexity, because students are given tests in different languages and because the social, economic and cultural context of the countries that are being compared can be very different. However, while different students within a country may learn in different contexts according to their home background and the school that they have attended, they are subjected to common tests and exams because in adult life they will all face common challenges, having to compete for the same jobs. Similarly, in a global economy, the benchmarks for educational success are no longer national standards alone, but increasingly, the best performing education systems internationally. As difficult as international comparisons are, they are important for educators, and PISA has made significant efforts to ensure that such comparisons are valid and fair

This section discusses countries' reading performance in the context of important economic, demographic and social factors that can influence assessment results, so as to provide a framework for interpreting the results that are presented later in the chapter.

As shown in Volume II, Overcoming Social Background, a family's wealth influences the educational performance of children, but that influence varies markedly across countries. Similarly, the relative prosperity of some countries allows them to spend more on education, while other countries find themselves constrained by a lower national income. It is therefore important to keep the national income of countries in mind when comparing the performance of education systems across countries. Figure 1.2.1 displays the relationship between national income as measured by the per capita Gross Domestic Product (GDP) and students' average reading performance.5 The figure also shows a trend line" that summarises the relationship between per capita GDP and mean student performance in reading among OECD countries. The scatter plot suggests that countries with higher national incomes tend to perform better in reading. The relationship suggests that 6% of the variation between the OECD countries' mean scores can be predicted on the basis of their per capita GDP. Countries with higher national incomes are thus at a relative advantage, even if the chart provides no indications about the causal nature of this relationship. This should be taken into account particularly when interpreting the performance of countries with comparatively low levels of national income, such as Mexico, Chile and Turkey. Table 1.2.20 shows an "adjusted" score that would be predicted if the country had all of its present characteristics except that per capita GDP was equal to the average for OECD countries

While per capita GDP reflects the potential resources available for education in each country, it does not directly measure the financial resources actually invested in education. Figure 1.2.2 compares countries' actual spending per student, on average, from the age of 6 up to the age of 15, with average student performance in reading. The results are expressed in USD using purchasing power parities. Figure 1.2.2 shows a positive relationship between spending per student and mean reading performance among OECD countries. As expenditure on educational institutions per student increases, so does a country's mean performance. Expenditure per student explains 9% of the variation in mean performance between countries and relatively low spending per student needs to be taken into account when interpreting the performance of countries such as Turkey, Mexico or Chile. At the same time, deviations from the trend line suggest that moderate spending per student cannot automatically be equated with poor performance by education systems. For example, Estonia and Poland, which spend around 40 000 USD per student, perform at the same level as Norway. Switzerland and the United States, which spend over 100 000 USD per student. Similarly, New Zealand, one of the highest performing countries in reading, spends well below the average per student.

Given the close interrelationship between a student's performance and his or her parents' level of education, it is also important to bear in mind the educational attainment of adult populations when comparing the performance of OECD countries, as countries with more highly educated adults are at an advantage over countries where parents have less education. Figure 1.2.3 shows the percentage of 35-44 year-olds that have attained tertiary level of education. This group roughly corresponds to the age group of parents of the 15-year-olds assessed in PISA and how this relates to reading performance.

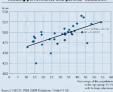
2

■ Figure I.2.1 ■



Source: OECD, PISA 2009 Distribute, Tuble E2.20
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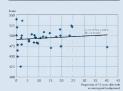
■ Figure I.2.3 ■
Reading performance and parents' education



Statism 400 http://dx.doi.org/10.1787/888922943133

Figure 1.2.5

Reading performance and proportion of students from an immigrant background



Source OECD, PISA 2009 Database, Table F2.20 Startifier @mm https://doi.doi.org/10.1787/989922343133

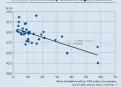
■ Figure 1.2.2 ■



Carmillar expondings (in thousand USO, corner tied using PPN) Source: OECD, PISA 2009 Database, Table L2.20.

Reading performance and share
of socio-economically disadvantaged students

Statilnk #EDF https://dx.doi.org/10.1797/898932343133



■ Figure 1.2.6 ■
Equivalence of the PISA test
across cultures and languages



Source OECD, PSA 2009 Database, Table 12.21. Statilisk SpS http://dx.doi.org/10.1787/8899323(313)



io-economic heterogeneity in student populations poses another major challenge for teachers and education systems. As shown in Volume II, Overcoming Social Background, teachers instructing socio-economically disadvantaged children are likely to face greater challenges than teachers teaching students from more advantaged social backgrounds. Similarly, countries with larger proportions of socio-economically disadvantaged children face greater challenges than countries with smaller proportions of disadvantaged students. Figure 1.2.4 shows the proportion of students at the lower end of an international scale of the economic, social and cultural background of students, which is described in detail in Volume II, and how this relates to reading performance. The relationship is strong and explains 46% of the performance variation among countries. Turkey and Mexico, where 58% of students belong to the internationally most disadvantaged group, and Chile, Portugal, Spain, Italy and Poland, where this proportion reaches more than 20%, thus face much greater challenges than, for example, Norway, Australia, Iceland, Canada and Finland, where the proportion of disadvantaged students is less than 5%.

Integrating students with an immigrant background can also be challenging, and the level of performance of students who immigrated to the country in which they were assessed can be only partially attributed to their host country's education system. Figure 1.2.5 shows the proportion of 15-year-olds with an immigrant background and how this relates to student performance.

When examining the results for individual countries as shown in Table 1.2.20 it is apparent that countries vary in their demographic, social and economic contexts. The last column in Table 1.2.20 summarises the different factors discussed above in an index.⁸ The index shows Norway, Japan, Iceland, Luxembourg, Finland and the United States with the most advantaged demographic, social and economic context and Turkey, Mexico and Chile with the most challenging context.

These differences need to be considered when interpreting PISA results. At the same time, the future economic and social prospects of both individuals and countries depend on the results they actually achieve, not on the performance they might have achieved under different social and economic conditions. That is why the results that are actually achieved by students, schools and countries are the focus of this volume.

Even after accounting for the demographic, economic and social context of education systems, the question remains: to what extent is an international test meaningful when differences in languages and cultures lead to very different ways in which subjects such as language, mathematics or science are taught and learned across countries? It is inevitable that not all tasks on the international PISA assessments are equally appropriate in different cultural contexts and equally relevant in different curricular and instructional contexts. To gauge this, PISA asked every country to identify those tasks from the PISA tests that it considered most appropriate for an international test. Countries were advised to give an on-balance rating for each task with regard to its relevance to "preparedness for life", authenticity and relevance for 15-year-olds. Tasks given a high rating by each country are referred to as that country's most preferred questions for PISA. PISA then scored every country on its own most preferred questions and compared the resulting performance with the performance on the entire set of PISA tasks (see Figure 1.2.6). It is clear that generally, the proportion of questions answered correctly by students does not depend in significant ways on whether countries were only scored on their preferred questions or on the overall set of PISA tasks. This provides robust evidence that the results of the PISA assessments would not change markedly if countries had more influence in selecting texts that they thought might be "fairer" to their students.

Finally, when comparing student performance across countries, the extent to which student performance on international tests might be influenced by the effort that students in different countries invest in the assessment must be considered. In PISA 2003, students were asked to imagine an actual situation that was highly important to them. so that they could try their very best and invest as much effort as they could into doing well. They were then asked to report how much effort they had put into doing the PISA test compared to the situation they had just imagined and how much effort they would have invested if their marks from PISA had been counted in their school marks. The students generally answered realistically, saving that they would make more effort if the test results were to count towards their school marks but the analysis also established that the reported expenditure of effort by students was fairly stable across countries. This finding counters the claim that systematic cultural differences in the effort made by students invalidate international comparisons. The analysis also showed that within countries, effort was related to student achievement with an effect size similar to variables such as single-parent family structure, gender and socio-economic background.9



THE PISA APPROACH TO ASSESSING STUDENT PERFORMANCE IN READING

The PISA definition of reading literacy

Reading liferacy includes a broad set of cognitive competencies, from basic decoding, to knowledge of words, against, and implication and include a processing and a processing and a processing and a word, it also include meta-cognitive competencies: the awareness of and ability to use a variety of appropriate strategies when processing tests.

Historically, the term "literacy" referred to a tool used to acquire and communicate information. This is close to the notion that the term reading literacy is intended to express in PISA: the active, purposeful and functional application of reading in a range of situations and for various purposes.

PISA 2009 defines reading literacy as:

understanding, using, reflecting on and engaging with written texts, in order to achieve one's goals, to develop one's knowledge and potential, and to participate in society.

The words "understanding, using, reflecting on" are readily connected with important elements of reading and cognition.

Understanding refers to the reader's task in constructing meaning, large and small, literal and implicit, from text. This can be as has as understanding he meaning of the words, or it can be a complex as comprehending the underlying theme of a lengthy argument or narrative. Using refers to the kind of reading that is directed toward applying the information and ideas in a text to an immediate task or goal or to reinforce or change beliefs. Much reading is of this kind. In some cases, using a text in this way requires just minimal understanding, combining a combining of the words with some elementary recognition of the meaning of the words with some elementary recognition of the meaning of the words with some elementary recognition of the meaning of the words with some elementary recognition of the meaning of the words with some elementary recognition of them reader agreed as a considerable of the source of the reader agreed as the control of the source of the reader agreed as the control of the source of the reader agreed as the control of the source of the reader agreed as the control of the source of the reader agreed as the control of the source of the sour

The term engaging in the definition implies the motivation to read. Many people appear to read lext only who make requires them to do so. Others committee) also read for the pleasure it brings them and for general interest. Some read only what others - teachers, employers, governments — make necessary while others also read things of their own choosing. That is, people differ in how engaged they are with text and how much of a role reading plays in their lines. Youltime Ills, Learning to Learn, which looks at reading engagement in detail, shows that reading is an important correlate with the direct cognitive measures. As such, it is important to understand these differences to get all plicture of nearing fleavary, Keading engagement comprises a cluster of affective and behavioural characteristics that include an interest in and enjoyment of reading, a sense of control over what one reads, involvement in the social dimension of reading, and diverse and frequent reading practices.

Written texts comprises texts in a variety of formats, including continuous and non-continuous texts, and in a variety of text types, such as narrative, expository and interactive. The term written texts also comprises texts in a variety of media: hand-written, printed and digital.

Until recently, most reading material was printed on paper. Now, readers also need to access and use test that is displayed on a screen of some kind, whether on a computer, a PDA, an ATM, or a mobile phone. Digital text opens the construct of reading to cover additional types of text and content. Examples of these novel form/content combinations are interactive texts, such as exchanges in comments sections of biogs or in e-mail response thready, multiple texts, whether displayed at the same time on a sexence or inked through phyperiext, and expandable texts, where a summany can be linked to more detailed information if the user chooses. While one can find examples of similar texts on page, they are much less common in that Open.



The PISA definition of reading encompasses both printed and digital texts, acknowledging that the fundamental competency, regardless of medium, is making meaning from verbal language in its graphic form.

With the words to achieve one's goals, to develop one's knowledge and potential, and to participate in society, the second half of the definition is intended to capture the full scope of situations in which reading literacy plays a role. To achieve their goals, individuals have a range of needs they must address, from basic survival to personal satisfaction, to professional and career development, to participation in society. Reading is increasingly required in meeting those needs, whether simply finding one's way while shopping, or negotiating complex bureaucracies, whose rules are commonly available only in written texts. It is also important in meeting individuals' needs for sociability, for entertainment and leisure, for developing one's community and for work. Reading is also required to develop one's potential. This is obviously the case in the contexts of school and post-school education, but surveys suppost that many adults also engage in some kind of learning throughout their life, much of it self-directed and informal. Typically this learning requires some use of text, and as individuals want to improve their life, whether at work or outside, they need to understand, use, and engage with printed and digital texts. The use of participate in society underlines the focus on an active role; individuals use text as a way to engage with their social surroundings. to learn about and to actively contribute to life in their community, close to home and more broadly. In this, PISA also recognises the social aspect of reading literacy, seeing it as part of the interactions between and among individuals. And of course, for many individuals, reading is essential to their participation in the labour force.

The PISA 2009 framework for assessing reading literacy

The PISA framework for assessing literacy has guided the development of the assessment and also sets parameters for reporting. The PISA reading literacy assessment is built on three major characteristics: texts, aspects and situations. These characteristics are a useful means of analysing and describing the domain, even while it is recognised that the categorisation of texts and tasks is not absolute, since those elements of reading do not exist independently of one another. Figure 1.2.7 shows the relationships between the major features of the framework.

All of these elements were systematically manipulated by test developers to construct the tasks that make up the test. Some elements of these framing characteristics are also used as the basis for constructing scales and subscales, and thus for reporting, whereas others ensure that reading literacy is adequately covered,

TEXTS What kind of text must students read?	Medium In what form does the text appear?	On paper Digitally	
	Environment Can the reader change digital texts?	Austhored (trader is receptive) Message-based (trader can change) Continuous texts (in sentences) Non-continuous texts (in lists, like this one) Maried texts (combining these Maried texts (combining these Maried texts (brought together from more than or source	
	Text format How is the text presented?		
	Text type What is the rhetorical structure of the text?	Descriptive (typically answering "what" questions) Narration (typically "when") Exposition (spicially "how") Argumentation (typically "why") Direction (providing instructions) Transaction (exchanging information)	

- SITUATIONS
 - What is the intended use of the text, from the author's point of view?
- · Personal: To satisfy one's own interests · Public: Relating to wider society
- · Educational: Used in Instruction Occupational: Related to the world of work

8

The characteristic texts covers the range of materials that are read, and is further classified into a number of sub categorisations: medium, environment, text format and text type. Text medium - print and digital - is an important subcategorisation in PISA, because it is used as the basis for reporting two separate reading scales. Although the PISA 2009 concept of reading encompasses reading in both print and digital media, and the framework is built to reflect this unitary conceptualisation, the skills and knowledge applied to reading in the two media are not identical. Print reading and digital reading are therefore reported on separate scales to allow countries to explore the differences in reading among their 15-year-olds. The reporting of results in this publication focuses on print reading, while Volume VI, Students On Line, explores the results of the assessment of digital reading skills. Text format is also used as an organiser for reporting, building subscales for the categories continuous and non-continuous, which describe two ways in which texts are commonly structured, either in sentences and paragraphs (continuous), or in other formats such as lists, diagrams, graphs and tables (non-continuous). The other two text classifications are used to ensure an adequate coverage of the definition of reading literacy. The environment classification applies to digital texts only. It recognises the distinctive feature of a class of digital texts, including e-mails, blogs and forums, that the reader participates in constructing. This kind of text is termed message-based in PISA, and is distinguished from authored texts, where the text is written by a single author and is read as a completed artefact. Finally, the classification text type identifies categories of text that form the basis of many national and some international reading frameworks: narration, exposition, argumentation and so on. In PISA they are applied to ensure that reading texts with different rhetorical purposes are included in the assessment.

The excord major characteristic, aspects, defines the cognitive approach that determines how readen engage with a text. Profice interaction have a repertoire of approaches and purposes for reading. They approach text is noted to access and retrieve information. Hey are able to interpret tests at the level of words, sentences and larger sections, and integrals information within texts and across multiple texts. Proficient readen reflect on texts in order to better understand and extend their own experiences, and in order to better understand and extend their own experiences, and in order to evaluate the relevance, utility and quality of the texts themselves. While all of these approaches are integral to proficient reading, the emphasis they are given in reading curricula and proficiency are consistent of the section of the experts access and retrieve, integrate and interpret and reflect and evaluate are used as the basis for reporting on reading, to investigate how proficiency in each of them plays out across the participating countries and subgroups of interest. If

The third characteristic used to build the PISA reading framework is situation, the range of broad contexts for which texts are produced. This characteristic plays a relatively minor role in comparison with texts and aspects, in that it does not form the basis of reporting scales. However, the specification of situations in the framework ensures coverage of the definition of reading literacy; so that an appropriate range of contexts with the concomitant sets of vocabulary and linguistic structures is included in the assessment tasks.

In the remaining part of this section the three framework characteristics of text, aspect and situation are discussed in more detail.

Characteristics of the texts

PISA 2009 categorises texts by the medium through which they are communicated, the environment that establishes whether or not the reader has the potential to influence the content of the text (for digital texts only), the text format and the text type.

Medium

The broadest distinction between texts in the PISA 2009 framework for reading literacy is the classification by medium: print or digital.

Print-medium next usually appears on paper in forms such as single sheets, brochures, magazines and books. The physical status of the printed text encourages (though it may not compely the reader to appreach the content on text in a particular sequence. In essence, printed texts have a fixed or static existence. Moreover, in real life as well as in the assessment context, the extent or amount of the text is immediately visible to the reader.

Digital-medium text for the purposes of PSA corresponds essentially to hypertext: a text or texts with avalgation tools and features. Such digital texts have an unfixed, dynamic existence. In the digital medium, typically only a fraction of the available text can be seen at any one time. Other the extent of text available is unknown, and a task may require reference to multiple texts. Readers use navigation tools and features such as scroll bars, buttons, memos and lasts. They also use text search functions and global content representation devices such as site maps. A major navigation tool that assists readers in finding their way around a number of texts, and one of the most distinctive features of digital texts. Is the heurent lank, (An example of a heupertax link is way now prize occasion.)



The difference between print and digital texts, such as the amount of visible text and the presence of navigation tools and features, imply an expandest of or mediag skills and howeledge. Digital texts made possible, and even require, non-sequential reading, with each reader constructing a "customised" text from the information encountered at the links he or the follows. Skiller nearises of digital text must be familiar with navigation features and tools that do not exist in the print medium. In addition, hypical digital reading activities involve the use of multiple texts, sometimes selecting from a virtually infinite pool. Calerine information on the Internet requires Skimming and examing through large amounts of material and immediately evaluating its credibility. Critical thinking, therefore, has become more important than ever in reading literacy."

Digital tosts octend or emphasise some features of traditional reading, and introduce other features that are new to reading. The inclusion of digital tests in PSA allows the gathering of evidence about student competencies in understanding and using information in the digital medium. It also makes It possible to learn more about how ways of reading in the two media are similar and diliteral in practice, and how various features of tests in the two media impact on the cognitive aspects of reading.

The sample material later in this chapter comprises seven units from the print medium (see Figures 1.2.40 to 1.2.46) and one from the digital medium (see Figure 1.2.47).

Text environment

The distinction by text environment, authored or message-based, refers to whether or not a digital text can be changed by the reader. Texts with a fixed content are classified as authored. Texts with which the reader can interact are classified as message-based.

An authored environment is one in which the reader is primarily receptive: the content cannot be modified. They are self-contained environments, controlled or published by a commercial company, a government department, an organisation or institution, or an individual. Readers use these sites mainly for obtaining information. Text objects within an authored environment include home pages, sites publicising events or goods, government information sites, educational sites containing information for students, news sites and lists of search results.

A message-based environment is one in which the reader has the opportunity to add to or change the content, which is to some externfluid and collaborative. Readers use these these not only for obtaining information, but also as a way of communicating. Test objects within a message-based environment include e-mail message, blogs, that rooms, web forums and reviews, and on line forms. In these tests, later entries often cannot be understood without understanding only contributions.

While authored texts more closely resemble traditional print-based texts, message-based axts are increasingly prevalent in the digital medium, most prominently for social networking but also in public, deutactional and workbased contexts. Knowledge of the structures and features of texts in both environments, together with skills in negotiating them and evaluating their authority, are part of the repertoire of proficient readors.

A with namy of the variables in the reading framework, the environment classifications are not strictly partitioned, and an individual tent may contain elements of both. The diplat reading assessment unil RAM/TO/EDPL, which is reproduced in the section containing sample questions at the end of this chapter (see Figure 12.47), includes tasks that represent both authorior and message-absed environments. Two of the questions are based on a both, the first on a series of authorior diplates and the fourth requires the reader to use both an e-mail message and authorior diplates are the series of authorior diplates and the fourth requires the reader to use both an e-mail message and authorior diplates are the series of authorior diplates.

Text format

Performance on text format subscales were already reported in PSA 2000, where groups of countries showed differential reading performance on continuous and non-continuous texts, and boys' and girls' results were more similar on the non-continuous texts subscale than on continuous texts subscale. These results, with their implications for policy, have prompted the inclusion of text format subscales alongside aspect subscales in the reporting of results from the PSA 2009 assessment.

Continuous texts are hypically composed of sentences that are, in turn, organised into paragraphs. These may fit into even larger structures such as sections, chapters and books. Non-continuous texts are most frequently organised in matrix format, based on combinations of lists. Texts in continuous and non-continuous format appear in both the print and digital media. Mixed and multiplie format texts are also prevalent in both medial, particularly in the digital medium. In continuous texts, organisation occurs applicable or visually by the separation of parts of the text into



paragraphs, by paragraph indentation, by the breakdown of text into a hierarchy signalled by headings that help readers to recognise the organisation of the text, and by the use of formatting features such as different font sizes, and font types such as italic and boldface. Discourse markers also provide organisational information. These include sequence markers (for example, "first", "second" and "third"), and causal connectors (for example, "therefore", "for this reason" and "since"), which show the relationships between parts of a text. Examples of texts in continuous text format in the print medium include newspaper reports, essays, novels, short stories, reviews and letters. In the digital medium the continuous text format group includes reviews, blogs and reports in prose. Digital continuous texts tend to be short because of the limitations of screen size and the need for piecemeal reading, which make long texts unattractive to many online readers (although this may be changing with the increasing currency of e-books).

Non-continuous texts, also known as documents, are organised differently to continuous texts, and therefore require a different kind of reading approach. As the sentence is the smallest unit of continuous text, so all non-continuous texts can be shown to be composed of a number of lists.12 Some are single, simple lists, but most consist of several simple lists combined. Examples of non-continuous texts are lists, tables, graphs, diagrams, schedules, catalogues, indexes and forms. These texts occur in both print and digital media.

Continuous and non-continuous texts require readers to apply different sets of knowledge about the text's distinctive structures and features and somewhat different reading strategies. In everyday tasks, however, readers often need to draw on both sets of knowledge and strategies when they integrate information in different formats and across several texts. The PISA 2009 reading framework has recognised this important part of the reader's repertoire by identifying mixed and multiple texts as separate text formats.

Mixed texts are defined in PISA as single, coherent objects consisting of a set of elements in both continuous and non-continuous formats. In well-constructed mixed texts the components (for example, a prose explanation including a graph or table) are mutually supportive through coherence and cohesion links at the local and global level. Mixed text in the print medium is a common format in magazines, reference books and reports, where authors employ a variety of representations to communicate information. In the digital medium authored web pages are typically mixed texts, with combinations of lists, paragraphs of prose and often graphics. Message-based texts such as online forms, e-mail messages and forums also combine texts that are continuous and non-continuous in format.

Multiple texts are defined as collections of texts that have been generated independently and each of which makes sense independently. They are juxtaposed for a particular occasion or may have been loosely linked together for the purposes of the assessment. The relationship between the texts may not be obvious; they may be complementary or may contradict one another. For example, a set of websites from different companies providing travel advice may or may not provide similar directions to tourists. Multiple texts may all be in one format (for example, continuous) or may include both continuous and non-continuous texts. Given the prevalent use of hypertext in PISA's assessment of digital reading, almost all units in that medium are based on stimulus that consists of multiple texts, with the tasks requiring users to read across several texts (which may be different websites or different pages belonging to the same website), each presented in a variety of formats including prose paragraphs, menu lists, diagrams and other graphics.

The sample material at the end of this chapter includes examples representing three of the four text formats, as indicated in Figure 1.2.8.13

	•	Figure	1.2.8	3 =	
Formulas	_			4	

Text format	Sample questions
Continuous	 THE PLAY'S THE THING – Questions 3, 4 and 7
	 TELECOMMUTING – Question 7
	 BRUSHING YOUR TEETH – Questions 1, 2, 3 and 4
	 BLOOD DONATION NOTICE – Questions 8 and 9
	 MISER – Questions 1, 5 and 7
	 tWANTTOHELP (digital reading assessment) – Question 1
Non-continuous	 MOBILE PHONE SAFETY – Questions 2, 6, 9 and 11
	 BALLOON – Questions 3, 4, 6 and 8
Multiple	TELECOMMUTING - Question 1
	• IWANTTOHELP (digital reading assessment) - Questions

Text type

All texts in PISA are classified by text type, a scribed according to the main rhetorical purpose of the text, which was primarily used to ensure that the definition of reading literacy was adequately covered in the construction of the PISA assessment. It is not conceived of as a variable that influences the difficulty of a task.

Description refers to properties of objects in space, bytically answering "what" questions. Impressionistic descriptions present information from the point of view of subjective impressions of relations, qualities, and directions in space. Technical descriptions present information from the point of view of objective observations in space. Examples of description include the depiction of a particular place in a travelegue or disny; a catalogue; a geographical map; and a specification of a feature, function or process in a technical manual.

Nazatón refers to properties of objects in time, hypically answering "when" questions. Nazratives present change from the point of view of subjective selection and emphasis. Reports present actions and events that cam be objectively verified by others. News stories enable readers to form their own independent opinion of facts and events. Examples of nazration include novels, short stories, plays, biographies, comic strips, and reports of events in a newspaper.

Equation presents information as composite concepts or mental constructs, othern answering "how" questions. Exposition yeasing provide an explanation of concepts, mental constructs, or conceptions from a subjective point of view. Definitions explain how terms or names are interrelated with mental concepts. Explications are a form analytic exposition used to explain how a mental concept can be linked with words or terms. Summaries are a form of synthetic exposition used to explain and communicate tests in a shorter form. Minutes are a record of the results of meeting or presentations. Excl interpretations are a form of both analytic and synthetic exposition used to explain the abstract concepts which are realized in a particular (fictional or non-fictional) text or group of texts. A scholarly essay, a diagram showing a model of memory, a graph of population trends, a concept map, and an entry in an online encyclopeada are all examples of expositions.

Agamentation presents the reliationship among concepts or propositions, often answering "why" questions. Pressuasie and opinionathe texts refer to opinions and points of view. Comment relasts the concepts of events, objects, and ideas to a printer system of throught, values, and beliefs. Scientific agamentation relates concepts of events, dojects, and ideas to systems of brought and knowledge so that the resulting propositions can be verified as valid or non-valid. A letter to the cellor, a poster advertisement, posts in an online forum, and web-based reviews of a book or film are examples of agamentation.

Instruction provides directions on what to do, Instructions present directions for certain behaviours in order to complete a task. Rules, regulations and statutes specify requirements for certain behaviours based on impersonal authority, such as practical validity or public authority. Examples of instruction are a recipe, a series of diagrams showing a procedure for giving first aid, and guidelines for operating digital software.

Finally, the distinguishing feature of a tensection is that it exchanges information in an interaction with the reader. Letters and invisions explore and maintain relationships. Surveys, questionnairse and interviews seek to collect information. Examples of transactional tests are a personal letter to share family news, an e-mail exchange to plan holidays, and a test message to arrange a meeting.

Aspect

The aspects of lexts are the second main organisational elements of the PSA 2009 assessment framework. They can be thought of a six mental strategies, approaches or purposes that readers use to negatiate their way into, around and between texts. PSA 2009 distinguishes between there categories—access and retrieve, integrate and interpret, reflect and evaluate. These there processes are the basis of substacles measuring performance in PSA, according to studently profit and organized performance in PSA, according to studently profit and profit and the profit and profit

In both the print and digital media, tasks classified as access and netrieve involve skills associated with finding, selecting and collecting information. On some occasions readers see specific pieces of information from a text. What time does the train leaved Who wrote this article? Sometimes finding the needed information is relatively simple, as it is directly and plainly stated in the text. However, access and retrieve tasks are not necessarily easy most Several factors may contribute to making such tasks challengine. For example, sendentees more from one piece



of information is required or knowledge of text structures and features may be called upon. Tasks in the print medium might require readers to use navigation features such as headings or captions to find their way to the appropriate section of the text before feating the relevant information. In the digital medium, an acress and retrieve question might involve navigating across several pages of a website, or using menus, lists or tabs to locate relevant information.

The aspect integrate and integree involves processing what is road to make internal sense of a text. Integrating task require the reader to understand the relations between collisionary parts of a text. Three relations include problem-solution, cause-effect, category example, equivalency, compact contexts, and understanding whole part relationships. To complete such tasks, the readers has to determine what the appropriate connections. In this may be expected the readers has to determine what the appropriate connections. In this may be expected as the readers has to determine what the appropriate connections. In this may be expected as may be in ordinary to the reader the parts to the relation may be more area of their in the text or may be in different paragraphs or even in different texts. Integrating refers to the process of making meaning from something that is not stated. It may involve recognising an estationship that is not stated, it may involve recognising on a relationship that is not stated, it may involve recognising or example, to infer to deduce from more local feet, for example, to infer to deduce from development of parts of all of the sample to a sentence. When interpreting, a reader is identifying the underdriving assumptions or implications for parts of all of the sample.

Reflect and evuluate tasks involve drawing on knowledge, closes or values external to the toot. In reflecting on a text, readers relate their own experience or knowledge to the text, in evaluating a text, readers relate a judigment about it, either drawing on personal experience or on knowledge of the world that may be formal or content-based. Reflecting on and evaluating the content of a text requires her reader to connect information in a text to knowledge from outside sources. To do so, readers must be able to develop an understanding of what is said and intended in a text. They must then text that mental representation against what they know and believe on the basis of either prior information or information found in other texts. Reflecting on and evaluating the form of a text requires readers to stand apart from the text, to consider it objectively and to evaluate its quality and proportisenses. Nowledge of text structure, of the style typical of difficient kinds of texts and or legister play an important role in these tasks. White intermediance, evaluation in the digital mentalm takes on a sightly different emphasis, Sources for ornitine information are more varied, ranging from authoritative sources to posting with unknown or uncertain credibility. Because the source of many digital texts in obscure and because it is much existent for displat texts in obscure and because its mental existent of uniformation must be evaluated in terms of accuracy, reliability and inflinences, but this is particularly important with online material.

The three broad aspects defined so far are not conceived of as entirely separate and independent, but rather as internelated and interdependent. Indeed from a cognitive processing perspective they can be considered to be semi-bleachkealt it is not possible to interpret or integrate information without having first retrieved it, and it is not possible to reflect on or evaluate information without having accessed the information, and very likely made some sort of interpretation. In PSA, however, while it is acknowledged that all aspects fas cognitive processes) are likely to play some role in each task, each task is designed to emphasise one or another of the aspects. Cenerally, the appect classification for each PSA reading literacy task depends on the objective of the task. For example, retrieving a single piece of explicitly stated information from a web page just has finding out the number of Internet users worklowledy would be classified as an access and retrieve task, even though it might involve a complex series of stops including the evaluation of the relevance of several results on a search result page, comparing and contrasting descriptions and deciting which of several secus locates is likely to be most authoritation.

A few PSA digital reading tasks are classified as complex in terms of aspect. These tasks have been designed to take advantage of the relative freedoor of reading in this medium, where the arrangement and organisation given to a print text by the author's ordering of pages, chapters or larger sections is absent, and the sequence of steps to be taken by the reader in completing a task is thus much more fluid. These tasks, which are intended to simulate the uncertainty of negotiating hyperapace, do not allow assigning the task to one of the three aspects in any meaningful way. The most saltered feature of such tasks is the interaction between accessing, retrieving, integrating, integrating and reflecting. Therefore these tasks have been described as complex to represent this dynamic cognitive processing.

Figure 1.2.9 shows sample tasks that represent each of the aspects. The tasks are reproduced in full at the end of this chapter.



Figure 1.2.9

Examples of tasks by aspect					
Aspects required	Sample questions				
Access and retrieve	 BRUSHING YOUR TEETH – Questions 2 and 3 				
	BALLOON – Question 3				
	MISER – Question 7				
	 IWANTTOHELP (digital reading assessment) – Questions 1 and 2 				
Integrate and interpret	 MOBILE PHONE SAFETY – Questions 2 and 9 				
	 THE PLAY'S THE THING – Questions 3, 4 and 7 				
	 TELECOMMUTING – Question 1 				
	 BRUSHING YOUR TEETH – Question 1 				
	BALLOON – Question 8				
	 BLOOD DONATION NOTICE – Question 8 				
	 MISER – Questions 1 and 5 				
	 IWANTTOHELP (digital reading assessment) – Question 3 				
Reflect and evaluate	MOBILE PHONE SAFETY – Questions 6 and 11				
	 TELECOMMUTING – Question 7 				
	 BRUSHING YOUR TEETH – Question 4 				
	 BALLOON – Questions 4 and 6 				
	 BLOOD DONATION NOTICE – Question 9 				
Complex	IWANTTOHELP (digital reading assessment) – Question 8				

Situation

Situation is used in PISA to define texts and their associated tasks, and refers to the contexts and uses for which the author constructed the text. While content is not used for the purpose of reporting results, by sampling texts across a variety of situations the intent is to maximise the diversity of content included in the PISA reading literacy survey. Each text is assigned to one of the four situations identified in PISA - personal, public, educational and occupational - according to its supposed audience and purpose, rather than with regard to the place where the reading activity may be carried out. For example, literary texts, which are often used in classrooms, are generally not written for educational purposes, but rather for readers' personal enjoyment and appreciation. They are therefore classified as personal. Conversely, textbooks are read both in schools and in homes, and the process and purpose probably differ little from one setting to another. Such texts are classified as educational in PISA.

The personal category relates to texts that are intended to satisfy an individual's personal interests, both practical and intellectual. This category also includes texts that are intended to maintain or develop personal connections with other people, It includes personal letters, fiction, biography, and informational texts that are intended to be read to satisfy curiosity, as a part of leisure or recreational activities. In the digital medium it includes personal e-mails, instant messages and diary-style blogs.

The public category describes texts that relate to activities and concerns of society as a whole. The category includes official documents as well as information about public events. In general, the texts associated with this category assume a more or less anonymous contact with others; they also include forum-style blogs, news websites and public notices that are encountered both online and in print.

The content of educational texts is usually designed specifically for the purpose of instruction. Printed text books and interactive learning software are typical examples of material generated for this kind of reading. Educational reading normally involves acquiring information as part of a larger learning task. The materials are often not chosen by the reader, but instead assigned by an instructor. The model tasks are those usually identified as "reading to learn".

Occupational texts are those associated with the workplace, often texts that support the accomplishment of some immediate task. Such texts might be intended to help readers search for a job, either in a print newspaper's classified advertisement section, or on line, or to follow workplace directions. The tasks addressing this kind of text are often referred to as "reading to do" rather than "reading to learn". Texts written for these purposes, and the tasks based on them, are classified as occupational in PISA.



The sample material at the end of this chapter includes examples of texts representing each of the four situations, as shown in Figure 1.2.10. Unit names are listed rather than tasks, since in most cases all tasks in a unit are classified under the same situation: that of the stimulus texts.

■ Figure 1.2.10 ■

	Examples of text format by situation						
_	Situation	Sample texts					
	Personal	THE PLAY'S THE THING MISER					
	Public	MOBILE PHONE SAFETY BLOOD DONATION NOTICE					
	Educational	BRUSHING YOUR TEETH BALLOON					
	Occupational	TELECOMMUTING IWANTIOHELP (digital grading assessment)					

How the PISA 2009 reading results are reported

How the PISA 2009 reading tests were designed, analysed and scaled

The development of the PISA 2009 reading tasks was co-ordinated by an international consortium of educational research institutions contracted by participating countries through the OECO, under the guidance of a group of reading exports from participating countries. Participating countries contributed stimulus material and questions, which were reviewed, tried out and refined intentiely one the three years leading up to the administration of the assessment in 2009. The development process involved provision for several rounds of commentary from all participating countries, as well as small casel polition and a formal field trial in which samples of 15-year-olds from all participating countries, as well as small casel polition and a formal field trial in which samples of 15-year-olds from all participating countries. The selection or tasks, which included material submitted by 21 of the participating countries. The selection or small was made with repart to both their technical quality, assessed on the basis of their performance in the field trial, and their cultural appropriateness and interest bette for 15-year-olds, an guided by participating countries. Another sessmilar criterion for selection of the set of material as a whole was its fit to the framework described in the previous section, in order to maintain the balance across various categories of text, aspect and situation. Finally, its was ensured that the set of questions covered a tange of difficulty, allowing for good measurement and a description of the reading literacy of all 15-year-olds such text. The the least prefiction to the highly able.

Over 130 print reading questions were used in PSA 2009, but each student in the sample only saw a proportion of the total pool because different sets of questions were given to different students. The reading questions selected for inclusion in PSA 2009 were organised into half-hour clusters. These, along with clusters of mathematics and excitence questions, were assembled into badd board clusters can be, the participating student was then given a two-hour assessment. As reading was the focus of the PSA 2009 assessment, every booklet included at least one cluster of reading material. The clusters were rotated so othst each cluster appeared in each of the four possible positions in the booklets, and each pair of clusters appeared in at least 1 of the 13 booklets that were used in each country.

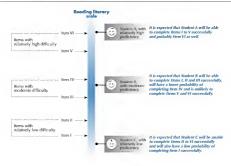
This design, similar to those used in previous PSA assessments, makes it possible to construct a single scale of conding proficiency, in which each question is associated with a particular point on the scale that indicates its difficulty, and each student's performance is associated with a particular point on the same scale that indicates his or her estimated proficiency. A description of the modelling technique used to construct this scale can be found in PSA 2009 Technical Report (OCLO, Orthocoming).

The relative difficulty of tasks in a test is estimated by considering the proportion of test takens who answer each test upon feeders and the proportion of test takens who answer each test the profession correctly, but a particular test can be estimated by considered in the proportion of test questions the profession of test questions the professions and the profession of test questions. It is possible to locate the level of reading filteracy that the student that shows the difficulty of expectation represents. By showing the professions of occupant testing as a difficulty of expectation represents the section of occupant testing as the profession testing the profession of occupant testing and the profession of occupant testing as the profession of the profession of



The location of student proficiency on this scale is set in relation to the particular group of questions used in the assessment, but just as the sample of students taking PSA in 2009 is down to represent all the 15-year-olds in the participating countries, so the individual questions used in the assessment are designed to represent the definition of reading limens, objectively. This means that students are likely to be able to complete questions successfully at or below the the difficulty level associated with their composition on the scale that they may not always do such conversely, they are are unlikely to be able to complete questions above the difficulty level associated with their position on the scale to successfull but the rows sometimes does of level as 10-11 to 10-

Figure 1.2.11
 Relationship between questions and students on a proficiency scale



The further a students proficiency is located above a given question, the more likely he or she is to complete the question (and other question of similar difficulty) successfully; the further the students proficiency is located below a given question, the lower the probability that the student will be able to complete the question, and other similarly difficult questions successfully.

How reading proficiency levels are defined in PISA 2009

PEA 2009 provides an overall reading literacy scale for reading tests, clawwing on all the questions in the rading scale soft meter aspects and two test formats. "The metric for the overall reading scale is based on a mean for OECD countries set at 500 in PEA 2000, with a standard deviation of 100. To for a set of the scale is disclosed intellegent the set of the scale is disclosed into levels, bearing the statistical principles. Descriptions are then generated, based on the tasks that are located within each level, to describe the fixed of skills and knowledge meeted to complete from successful."

For PISA 2009, the range of difficulty of tasks allows for the description of seven levels of reading proficiency: Level 1b is the lowest described level, then Level 1a, Level 2, Level 3 and so on up to Level 6.

■ Figure I.2.12 ■

Summary descriptions for the seven levels of proficiency in reading

	Summary descriptions for the seven levels of proficiency in reading								
Level	Lower score limit	at each level or above	Characteristics of tasks						
6	698	0.8% of students across the OECD can perform tasks at Level 6 on the reading scale	Take at this level specially require the reader to make multiple inferences, comparisons and contrasts that are both detailed and previes. They require demonstation of a full and detailed understanding of one or more tests and may involve integrating information in more than one text. Lists may require the reader to deal with untimitality data, in the presence of positionets comparing information, and to generate reader to lead to the previous of the previous of positionets comparing information, and to generate reader to large positioned to add to a formation of the previous of positionets compared to the production of the previous of the previo						
5	626	7.6% of students across the OECD can perform tasks at least at Level 5 on the reading scale	Easks at this level that involve retrieving information require the reader to locate and organise several price of deeply enhanced information, inferring which information in the test is relevant. Eeffective tasks require critical evaluation or hypothesis, drawing on speculated. Incompleting, finite inferreportative and reflective tasks require a full and of reading, tasks at this level hypically involve dealing with concepts that are contary to expectations.						
4	553	28.3% of students across the OECD can perform tasks at least at Level 4 on the reading scale	Take at this level that Involve retrieving information require the reader to Coate and organize several pieces of embedded information. Some take at this level require interpreting the meaning of mances of language in a section of text by taking into account the text as a whole. Other interpretative take require understanding an applying categories in an unfamiliar context. Reflective tasks at this level require readers to use formed or public knowledge to hypothesis about or richtally evaluate a text. Reades must demonstrate an accurate understanding of long or complex tosts whose context or forms may be unfamiliar.						
3	480	57.2% of students across the OECD can perform tasks at least at Level 3 on the reading scale	Tasks at this level require the resider to locate, and in some cases recognise the relationship between, sower places of information that must never hability conflictions, independent trails at this level require the reader to integrate second parts of a text of a level of the residency of the residency of a level of the residency of the residency of a level of the residency of						
2	407	81.2% of students across the OECD can perform tasks at least at Level 2 on the reading scale	Some tasks of this level require the reader to locate one or more pieces of information, which may need to be interested and may need to meet sevent conditions. Other require recognizing the main idea in a text, understanding relationships, or constituting meaning within a limited part of the text where the information is not permitten and the reader must make low level inferences. Tasks at this level may involve comparisons or contrates based on a single feature in the ext. Typical reflective tasks at this level require moders to make a comparison or several connections between the text and outside households, by drawing on personnel perspirence and attribute.						
1a	335	94.3% of students across the OECD can perform tasks at least at Level 1a on the reading scale	Take at this fewel require the reader to locate one or more independent pieces of explicitly stated information; to recipit they stated information; to recipit they stated information; to recipit they stated information; to recipit the main feme or author's propose in a text about a familiar topic; or to make a simple connection between information in the text and common, everyably knowledge. Typically the required information in the text is prominent and there is little, if any competing information. The reader is explicitly directed to consider relevant factors in the task and in the text.						
1b		98.9% of students across the OECD can perform tasks at least at Level 1b on the reading scale	Tasks at this level require the mader to locate a single piece of explicitly stated information in a prominent position in a short, syntactically simple text with a familiar context and steet typic, such as a narrative or a simple list. The text typically provides support to the reader, such as expedition of information, pictures or familiar symbols. There is minimal competing information. In tasks requiring interpretation the reader						



Students with a proficiency within the range of Level 1b are likely to be able to complete Level 1b task successfully, go but are unlikely by be able to complete tests as higher tests. Level For feets tasks at higher tests less than from the result of th

PISA applies a standard methodology for constructing proficiency scales. Based on a student's performance on the tasks in the test, his or her score is generated and focated in a specific part of the scale, thes allowing the score to be associated with a defined proficiency level. The level at which the student's score is located is the highest level for which he or she would be expected to answer correctly most of a random selection of questions within the same level. Thus, for example, in an assessment composed of tasks spread uniformly across level 3, students with a score located within Level 3 would be expected to complete at least 50% of the tasks successfully. Because a level cover a range of difficulty and proficiency, success rates across the band vary. Students aren't bed born of the level would be likely to succeed on just over 50% of the tasks spread uniformly across the level, while students at the top of the level would be likely to succeed on will over 70% of the same tasks.

Figure 1.2.12 provides details of the nature of the reading skills, knowledge and understanding required at each level of the reading scale.

A profile of PISA reading questions

For an assessment such as PSA, which is conducted every three years, it is necessary to retain a sufficient number of questions from successive surveys to establish reliable trends. Other questions are publicly released after the survey to illustrate the ways in which performance was measured. At the end of this chapter, a selection of the released questions for the 2009 reading assessment is presented to illustrate the framework characteristics and the levels of proficiency described in this volume.

Figure 1.2.13 =
Map of selected reading questions in PISA 2009, illustrating the proficiency levels

evel	Lower score limit	Questions
6	698	THE PLAY'S THE THING – Question 3 (730)
5	626	
4		MOBILE PHONE SAEETY - Question 11 (604)
		BAHOON - Question 3.2 (595)
		MOBILE PHONE SAEETY - Question 2 (561)
	553	THE PLAY'S THE THING - Question 7 (556)
3		MISER - Question 5 (548)
		TELECOMMUTING - Question 1 (537)
~		MOBILE PHONE SAEETY - Question 6 (526)
		TELECOMMUTING - Question 7 (S14)
		BALLOON - Question 4 (510)
	480	MOBILE PHONE SAEETY - Question 9 (488)
2		THE PLAY'S THE THING - Question 4 (474)
		BALLOON - Question 3.1 (449)
1		BLOOD DONATION NOTICE - Question 8 (438)
	407	BALLOON - Question 6 (411)
1 a		BRUSHING YOUR TEETH - Question 4 (399)
		MISER - Question 1 (373)
		BALLOON - Question 8 (370)
		BLOOD DONATION NOTICE - Question 9 (368)
		BRUSHING YOUR TEETH - Question 2 (358)
	335	BRUSHING YOUR TEETH - Question 1 (353)
1b		MISER - Question 7 (310)
	262	BRUSHING YOUR TEETH - Question 3 (285)

Note: Numbers in brackets refer to the difficulty of the question. Decimal points indicate questions that have a partial credit score (.1) and a full credit score (.2)

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Figure 1.2.13 shows a map of these questions in estions to their position on the described preferency scale. The first octume shows the preferency scale within which the test is located. The second column inclusions the lowest scale score for a task, in terms of its difficulty, that would allow it to be regarded as falling within that level. The size column shows the names of the unit and the task number it will be noticed that tasks within the same unit can represent a range of difficulties: THE PLAY'S THE THING, for example, comprise questions at Levels 2, 4 and 6. Thus a single unit may cover a brand section of the PSA reading difficulty around

What students can do in reading

PISA summarises student performance on a reading scale that provides an overall picture of students' accumulated reading skills, knowledge and understanding at age 15. Results for this overall reading performance measure are presented below, covering both the average level of reading performance in each country and the distribution of reading preformance. Detailed results for the different spaces and text formals are presented in subsequent sections.

Students reaching the different levels of proficiency

This section describes performance in terms of the seven levels of reading proficiency that have been constructed for propring reading in PSA 2009. Reyould Level 5, which was the highest described level of proficiency in previous PSA reading assessments, a new Level 6 has been added to describe very high levels of reading proficiency. The previous bottom level of measured proficiency, Level 1, has been relabelled as Level 1a. A new level, Level 1b, describes students who would previously have been rated as "below Level 1"; but who show proficiency in relation to a new set of tasks that is easier than those included in previous PSA assessments. These changes allow countries to know more about what kinds of tasks students with very high and very low reading proficering var capable of. Apart from the additional levels, the meaning of being proficient at reading Levels 2, 3, 4 and 5 remains the same in PSA 2009 as in previous surveys.

The distribution of student performance across these proficiency levels is shown in Figure 1.2.14. Results are presented in terms of the percentage of 15-year-olds within each country reaching the seven proficiency levels described in Figure 1.2.12. Table 1.2.1 provides figures for the percentage of students at each proficiency level on the reading scale with standard errors.

Proficiency at Level 6 (scores higher than 698 points)

Students proficient at Level 6 on the reading scale are highly-skilled readers. They are capable of conducting integrational analysis of tests, which requires detailed comprehension to hold replicit information and unstated implications; and capable of reflecting on and evaluating what they med at a more general level. Since students with scale scores at this level have secressfully completed intens all of the task presented to them in the reading masterial they are by implication discribited readers who can assimitate information from unfamiliar content means presented in applical formats, as well as being able to engage with more familiar content with typical structures and text for a structure of the structure of the content of the structure of the structure

Across OCLO countries, leves than 1% of students (DSPS) perform at this level, but there is variation armong countries. Seven countries have a significantly higher percentage of students performing at Level 6 – more than twice the average: the OCEO countries New Zoaland, Australia, Japan, Canada and Finland, as well as the partner countries and economies Singapore and Shanghal-China. There of these are alkain countries and three are finled-speaking OCEO countries. While in these countries the majority of students perform relatively well, with less than 5% of the students performing below Level 1a, two of these countries were are are also almost partitions—Japan and Powe Zealand—and two have very small spreads of student performance—Finland and Shanghal-China. Israel, which has a mean score well below the example at 674, shows an above-average 176 of its students (OCEO average of GPS) performing at Level 6 as well as an above-average 175 of its students (OCEO average of GPS) into their performance of contast, some countries with relatively high overall performance defined have a very contast, some countries with relatively high overall performance of forts have the open perspectation of students at the highest level of reading proticioney. Among these is forna, with a mean score of 339, the highest of any OCEO country, but with only a just above-average percentage of students acting level of (1%).



■ Figure I. 2.14 ■

How proficient are students in reading? Percentage of students at the different levels of reading proficiency

■ Below Level 1b □ Level 1a □ Level 2 □ Level 3 ■ Level 4 ■ Level 5 ■ Level 6

Shanghai-China				-	_	Shanghaì-China
Korea			D u	79	-	Korea
Finland			Para .	100		Finland
long Kong-China			- 12	-		Hong Kong-China
Canada				the same	_	Cenede
Singapore		- 61	-			Singapore
Estonia						Estonia
lapan						lapan
Australia	Students at Level 1a	67	-		_	Australia
	or below					
Netherlands	01.0000			-	_	Netherlands
New Zealand		100	_	_	_	New Zealand
Macao-China		E				Macao-China
Norway		100			1000	Norway
Poland			100			Poland
Denmark		. 80	- Loren	- 3	_	Denmark
Chinese Taipei		60	100	-	_	Chinese Taipei
Liechtenstein		- 01		-		Liechtenstein
Switzerland		ET.	-			Switzerland
Iceland		600				Iceland
ireland		-				Ireland
		-			_	
Sweden				-	_	Sweden
Hungary		ENC.		-	-	Hungary
Latvia		-		-	_	Latvia
United States		E11	1999			United States
Portugal		E1	True		100	Portugal
Belgium		ED:	1000	100		Belgium
United Kingdom		600			_	United Kingdom
Germany		807				Germany
Spain		F0.				Spain
France		801		_	_	France
Italy		-	-	-		Italy
Slovenia		-			_	Slovenia
Greece		600	J			Greece
Slovak Republic		60.		- 3	-	Slovak Republic
Croatia		600			_	Croatia
Czech Republic		100				Czech Republic
Lithuania		ED.		_	and the last	Lithuania
Turkey		-			_	Turkey
Luxembourg		and the same of				Luxembourg
Israel		married .			_	Israel
asian federation		-	,120	11000	_	Russian Federatio
				_		
Austria		#55V	100	-		Austria
Chile		BHIC	200			Chile
Dubai (UAE)		March .	1	-		Dubai (UAE)
Serbia		4711				Serbia
Mexico	100		100	100		Mexico
Romania	-	to the same of		_		Romania
Bulgaria			-			Bulgaria
Uruguay	-			_		Uruguay
Theiland	-					Theiland
	April April 2	_		-		Instand
idad and Tobago				_		Trinidad and Toba
Colombia	MG10		1000	1		Colombia
Jordan				-		Jordan
Montenegro		_				Montenegro
Brazil	-					Brazil
Tunisia		_		- D		Tunisia
Argentina			100	The same of		Amentina
Indonesia	Paris .			ALC: N		Indonesia
Albania	-			200		Albania
Kazakhstan		-				Kazakhstan
Qutar		-	1 1 1 1 1			Qatar
Peru			-	Studen	ts at Level 2	Peru
Panama			-100		r above	Penama
Azerbalian		_	373			Azerbaijan
Kyrgyzstan			11.00			Kyrgyzstan

Countries are ranked in descending order of the percentage of students at Levels 2, 3, 4, 5 and 6 Source: OECD, PISA 2009 Database, Table 1.2.1.

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The very small percentage of students performing at Level 6 illustrates that the PISA scale is capable of distinguishing reading proficiency up to the highest level of excellence that 15-year-olds are capable of attaining, Indeed, this level of proficiency is currently quite aspartional or many: in 16 partner countries and economies less than one-tenth of one per cent of the 15-year-old population performs at this top level.

Proficiency at Level 5 (scores higher than 626 but lower than or equal to 698 points)

Students proficient at Level 5 on the reading literacy scale can handle tests that are unfamiliar in either form or context. They can find information in such texts, demonstrate detailed understanding, and infer which information is relevant to the task. They are also also the tortifically evaluate such texts and build hypotheses about them, drawing on specialised knowledge and accommodating concepts that may be contany to expectations. An inspection of the kinds of tasks students at Level 3 are capable of suggests that hose who get to this level can be regarded a potential "world class" knowledge workers of tomorrow, making the proportion of a country's students reaching this level relevant for its fature excounts commodificeness.

Since students proficient at Level 6 can also do Level 5 tasks, the following descriptions use "proficient at Level 5" to mean those whose highest level of performance is either Level 5 or 6. The same terminology is used to refer to the cumulative proportions at lower levels. Students performing at Level 5 or 6 are frequently referred to as "top necformers" in this report.

Across OECD countries, 8% of PSA 2009 students are preficent at Level 5 or higher. One country, Shanghal-China, has well over braice the average capable of Level 5 tasks (19% of students). Several other countries had per centages above 12% of students at Level 5 or above: the OECD countries New Zealand, Finland, Japan, Korea, Australia, Canada as well as the partner countries and economies Singapore and Hong Korng-China. All of these countries also perform well in terms of nean proficiency. Conversely, countries with lower average performance also level to be those with the fowest percentages of students capable of succeeding with Level 5 reading tasks. All of the countries with less than half of one per cent of students performing at Level 5 (the OECD country Mexics os well as the partner countries Acerbaijan, Indonessa, Kyrgyzstan, Albania, Junisia, Jordan, Thailand, Kazakhstan and Peru Jawa emperiormance below 407, the cut-score between Levels I and 2, with the exception of Mexics and Hailand.

Proficiency at Level 4 (scores higher than 553 but lower than or equal to 626 points)

Students proficient at Level 4 on the reading literacy scale are capable of difficult reading tasks, such as locating membedded information, constraing meming from naunces of language and citically evaluating a lext. Tasks at this level that involve retrieving information require students to locate and organise several pieces of embedded information and some tasks require insuperenting the meaning of naunces of language in a section of test by taking into account the test as a whole. Other interpretative tasks require understanding and applying categories in an unfamiliar context, as where the section of the secti

Across OCEO countries, 28% of PSA 2009 students are proficient at Level 4 or higher. A ranking of countries by the portage of the properties of the properties of the properties of the properties by mean performance, but there are a runnber of exceptions. Taking into account its mean performance (496), France, for example, has a disproportionately high percentage of students performing at these levels (25%), despite having a mean score not statistically different from the OCCO average, while in Demmark, with a similar average to France, the proportion acts (5%). Nineteen countries have levels 102%, does not be reporting at 102 to performing at 102 to 102.

Proficiency at Level 3 (scores higher than 480 but lower than or equal to 553 points)

Students proficient at level 3 on the reading literacy scale are capable of reading tasks of moderate complexity, such as locating multiple pieces of information, making links between different parts of a text, and relating it to familiar everyday knowledge. Tasks at this level require students to locate, and in some cases recognise the relationship between, several pieces of information that must meet multiple conditions. Interpretative tasks at this level require students to integrate several parts of a set in order to identify a main lidea, undestand a relationship or constitute the meaning of a word or phrase. They need to take into account many features in comparing, contrasting or categorising, Offine the required information is not prominent or three is much competing information; or there are other challenges in the text, such as ideas that are contany to expectation or negatively worded. Reflexive tasks at this level many require students to evaluate a stalk is level many require students to evaluate a stalk is level many require students to evaluate a

2

feature of the text. Some reflective tasks require readers to demonstrate a fine understanding of the text in relation to familiar, everyday knowledge. Other tasks do not require detailed text comprehension but require the reader to draw on less common knowledge from ouskide of the text.

Across OCEO countries, the majority (57%) of 15-year-old students are proficient at Level 3 or higher for half of these students (57%) of the totally, this is the highest level reached, making tevel 3 the most common level of highest for higher than the profit of the most profit of the profit of the most profit of the most common level of highest forms of the most profit of the most profit

Proficiency at Level 2 (scores higher than 407 but lower than or equal to 480 points)

Students proficient at Level 2 on the reading literacy scale are capable of tasks such as locating information that meets sevent conditions, making comparisons or contasts around a single feature, working out what well-defined part of a text means even when the information is not prominent, and making connections between the text and personal experience. Some tasks at this level require students to locate one or more pieces of information, which may need to be inferred and may need to meet several conditions. Others require recognising the main idea in a text, undestanding relationships, or constraing meaning within a limited part of the text when the information is not recognised in the continual prominent and the reader must make low level inferences. Takes at this level may involve comparisons or contrasts based on a single feature in the text. Sprical reflective tasks at this level require students to make a comparison or several connections between the vist and outside knowledge, by drawing on personal experience and attitudes.

Level 2 can be considered a baseline level of proficiency, at which students begin to demonstrate the reading literacy competencies that will enable them to participate effectively and productively in life. The follow-up of students who were assessed by PSS in 2000 as part of the Canadian Youth in Transition Survey has shown that students scoring below level 2 face a disproportionately higher risk of poor prod-secondary participation or low libour market outcomes at age 19, and even more so at age 21, the lastest age for which data from this lengthudnal study are currently vanishbe. "For creating, of students who performed below level 2 in PSAs reading in 2000, over 60% had not gone on to any post-school education by the age of 21, by contrast, more than half of the students 65% who had performed at level 2 as their highest level where at college or university.

Across OECD countries, more than four in five students (81%) are proficient at Level 2 or higher. In Shanghair china and Koros, only small proportions of students, 4% and 6% respectively, are not proficient at Level 2. At the other externe, in ten partner countries only a minority could perform at this level. In 18 participating countries and ecromonies, Level 2 was the most common highest level of proficiency for students, including some OECD countries: Mexico and Chile with 35%, and Turkey with 25%. Other countries or which Level 2 had the highest percentage of students included three Latin American countries (Colombia, Unuguay and Augentina) and three Eastern European countries (Romain), the Resistan Federation and Sulgaria).

Proficiency at Level 1a (scores higher than 335 but lower than or equal to 407 points)

Students proficient at Level 1a on the reading literacy scale are capable of locating pieces of explicitly stated information that are rather pominism in the text, recognising a main idea in a text about a familiar topic, and recognising the connection between information in such a text and their everyday experience. Tasks at this level require students to locate one or more independent pieces of explicitly stated information, recognise the main temeor or author's purpose in a text about a familiar topic, no make a simple control between information in the text and common, everyday knowledge. Tspically the required information in the text is prominent and there is little, flary, competing information. Students are explicitly directed to consider relevant factors in the text and in the text.

Across OCCO countries, the great majority of 15-year-old students (94%) are proficient at level 1 as or higher. However, in the five partner countries, Azarbaijan, Pent, paramana, Quatr and Kyaggzatan, more than one in three was tudents do not reach this level. This does mean that they are illicente, but it does mean that they do not reach this level with the does mean that they do not reach this level as tasks, which was the does not make the does not consider the does not conside



Proficiency at Level 1b (scores higher than 262 but lower than or equal to 335 points) and below Level 1b (scores lower than or equal 262 points)

Sudens proficient at Level 1b on the meding literacy scale can find explicitly stated information in short, single texts with a familiar style and content. They can make low-level inferences such as recognising a causal connection across two sentences even when it is not stated. Tasks at this level require students to locate a single piece of explicitly stated information in a prominent position in a short, syntactically simple text with a familiar context and text type, such as a narrative or a simple like. The text hypically provides support to the reader, such as repetition of information, pictures or familiar symbols. There is minimal competing information. In tasks requiring interpretation students may need to make simple connections between aducent tieses of information.

A small percentage of students across OECD countries – 1.1% – has scores below 262 points on the PISA scale. These students are therefore judged to have performed below Level 1b. This does not mean that they are necessities completely illiens, but there is insufficient information on which to base a description of their reading proficiency: only two tasks were used in PISA 2009 whose difficulty matched the proficiency of students below Level 1b – too few tasks on which to base any generalisations about what suddents performing at this level can do as readers.

The fact that just one in a hundred students across OCO countries cannot perform tasks at Level 1b idemonstrates that the PSA rending vale is now able to describe accurately the performance of almost all students, looked at in another way, 0% of students do not much Level 1a, and the addition of Level 1b identifier reading tasks that the out of six members of this goups cands. Even in the lowest performing countries, with the exception of Hygystan, this is true of at least half of students who perform below Level 1a. This improved capacity of PSA to describe reading skills at a very low where complements is improved all thing to describe which perform the low the performance of the perfor

All countries have some students performing at Level 1b, and every country except Leichtenstein has some proportion – though in some cases, a small one – of students performing below Level 1b. However, in Kyrgyzstan, 59% of students perform below Level 1a, half of them below Level 1b. In four other countries, more than one third of students perform at or below Level 1b. Qutar, Panama, Peru and Azerbaijan. Clearly, finding ways to increase the general population's linearcy level in these countries is vital for their development.

Inequality of learning outcomes

tooking at the distribution of performance for each country across the proficiency levels, it becomes apparent that there is wide variation, regardless of energe proficiency, A for of the narrowest gaps between high and low performers are found in Asia as in Korea and in the partner countries and economies Indonesia, Thailand, Macao-China, Shanghai China and Friong Kong China. Istonia, Turkey and Chile, as well as the partner countries Arealized tasks and Seebla, are also the countries with compassabley narrow gaps between high and low performers. For each of these countries, the gap between the top quanter and the bottom quarter of students in reading performance is at least 15 points less shan the exergeg gap, and the gap for all of these countries is also substantially narrower than the average when comparing performance of the bottom 10% and the top 10% of students feer Table 12.33. The narrow distribution does not appear to be associated with the overall level of performance. For example, one of the top performing OCLO Countries, Korea, has one of the narrowest distributions of ability, as does Chile, a country performing well below the OCLO average.

Countries exhibiting the widest distribution of performance in reading are the OECD countries issael, Belgium, Austria, New Zealand, Luxembourg and France, as well as the partner countries and economies Quata, Bulgaria, Trinickal and Tokago, Dubai (DAS) and Argentina, all of which have a gap of at least 15 points between their top quarter and bottom quarter of students wider than the average gap. The difference in performance between the top and bottom quarter in these countries is in the order of, on more than, two full proficiency levels.

As with those countries with a comparatively narrow distribution of student performance, the group of countries with a wide performance range is betreepencous in mean proficiency in reading, with New Zealand (27 points above the average) representing the extremes. Possible explanations for the wide variation in proficiency in Tedgium, Austris, New Zealand and Lumenhoung are the existence of an cachemically tracked school system (Austria and Belgium) and/or of different ethnic/language groups within the country associated with disputate socio-conomic status turnemboung and the vest Zealandly, Volumel (). Overcoming Scial Background, and Volume VI, What Makes a School Successfull, examine in detail important factors underlying the performance distribution somog countries.



■ Figure I.2.15 ■ Statistically significantly above the OECD average

Comparing countries' performance in reading

		Satistically significantly different from the OECD average. Not statistically significantly different from the OECD average.
		Sobstically significantly below the OFCD average
Mean	Comparison country	Countries whose mean score is NOT statistically significantly different from that of the comparison country
556	Shanghar-China	
539	Korca	Finland, Hong Kong-China
536	Enked	Korea, Hong Kong-China
533	Hong Kong-China	Korea, Finland
526	Singapore	Canada, New Zroland, Japan
524	Canada	Siggspore, New Zeoland, Japan
521	New Zealand	Singspore, Canada, Japan, Asalralia
520	Jupan	Singapore, Cenado, Niew Zeoland, Australia, Notherlands
515	Australia Netherlands	New Zealand, Japan, Nicherlands Japan, Australia, Belgium, Noway, Estonia, Switzerland, Poland, Icekind, United States, Liechterstein, Sweden, Cermany
506	Refigum	Japan, Australia, Bergunt, Norway, Estania, Switzerland, Poland, Lickond, United States, Liccitizentoni, Switzerland, Poland, United States, Liccitizentoni, Switzerland, Poland, United States, Liccitizentoni
503	Noney	Netherlands, Rolligum, Estonia, Switzerland, Poland, Rolland, United States, Liechtenstein, Sweden, Germany, Ireland, France
501	Estonia	Netherlands, Belgium, Norway, Switzerland, Poland, Linderd States, Liechtenstein, Sweden, Cermany Ireland, France, Chinese Tupes
501	Switzerland	Dermark, United Kingdom, Hungary Netherlands, Belgium, Norway, Estonia, Polisad, Rosland, United States, Lechtenstein, Sweden, Germany, Beland, France, Chinese Tarpey,
500	Poland	Dermark, United Kingdom, Hungary Netherlands Relature. Noneux Faceto. Switzerland. Linbed Liteland States Literatures Swiden. Gremony. Indiand. Faceto. Chapter Dates.
		Dremask, United Kingdom, Hungary
500	teeknd	Netherlands, Norway, Estonia, Switzenland, Foland, United States, Liechtenstein, Sweden, Cormuny, Iroland, France, Chinese Teipel, Hungary
500	United States	Netherlands, Belgium, Norway, Estonia, Switzerland, Poland, Iceland, Liechtenstein, Sweden, Germany, Iroland, France, Chinese Talpel, Dermank, Usaard Kingdom, Hungary
499	Lechterstein	Nitherlands, Belgium, Norway, Estonia, Switzerfand, Paland, Icoland, United States, Swedon, Germany, Ioland, France, Chinese Talpes, Dermark, United Kingdom, Hungary
497	Sweden	Nitherlands, Norway, Estenia, Switzerland, Poland, Iceland, United States, Leichtematrin, Commany, Iroland, France, Chinose Tapai, Donnook, United Knigdom, Hungary, Portugal
497	Cermany	Netherlands, Norway, Estona, Switzerland, Poland, Lorland, United States, Liechtsmäters, Sweden, Indand, France, Chinnee Taiper, Donmark, United Kingdom, Hungary
496	Ireland	Norway, Estonia, Switzerland, Roland, United States, Leichterstein, Sweden, Germany, France, Chinese Taipes, Denmark, United Kingdom, Hungary, Rottuggil
496	France	Noway, Estona, Switzerland, Poland, Iosland, United States, Lechtenstein, Sweden, Germany, Ireland, Chinese Taiper, Denmark, United Kingdom, Hungary, Postagol
495	Chinese Tarper	Estona, Switzerland, Poland, Iceland, United States, Liechtenstein, Sweden, Germany, Ireland, France, Denmark, United Kingdom, Hungary, Portugal
494	Dermark	Estonia, Switzerland, Polland, United States, Liechterstein, Sweden, Cermany, Ireland, France, Chinese Taiper, United Kingdom, Hungary, Portugal
494	United Kingdom Hungary	Fishina, Switzerkand, Roband, United States, Leichtendern, Sweden, Germany, Ireband, France, Chinese Taipes, Dermark, Hangsoy, Perugal Fisiolas, Switzerkand, Roband, Izeland, Linned States, Leichtendern, Sweden, Germany, Ireband, France, Chinese Taipes, Dermark, Urited Kingdow, Printagal
489	Portugal	Sweden, Ireland, France, Clanese Taiper, Denmark, United Kingdom, Hungary, Macao-Chira, Italy, Latva, Slovena, Greece
487	Macan-Chira	Portugal, Italy, Lahva, Gresce
486	Italy	Portugal, Macan China, Lahva, Slavena, Greece, Spain
484	Latvia	Portugal, Macao-China, Italy Slawena, Creece, Spain, Creech Republic, Slovak Republic
483	Skvena	Portugal, Italy, Latvo, Geneco, Spain, Crech Republic
483	Creece	Portugal, Macio-Chinu, Italy, Lativa, Slovenav, Spain, Croch Republic, Stouth Republic, Crosta, Israel
481	Spain	Italy, Labriu, Noversu, Creece, Carech Republic, Slovelk Republic, Clouds, tested
478	Czech Republic	Latvia, Slovenia, Greece, Spain, Slovak Republic, Groada, Israel, Luterribourg, Austria
477	Slovak Republic Creatia	Larvia, Greece, Spain, Czech Republic, Crosso, Israel, Lusembourg, Austria
474	trad	Greece, Spain, Czech Regublic, Slovak Republic, Israel, Lauembourg, Austria, Lithuania Greece, Spain, Czech Regublic, Slovak Republic, Cristin, Lusembourg, Austria, Lithuania, Turkey
472	Lusembourg	Cerch Republic, Shook Republic, Crusto, Israel, Assess, Lithussa
4712	Austria	Corch Republic, Slovak Republic, Creatia, heavil, Lusermbourg, Lithuana, Rarkey
468	Lithuerra	Crostis, Israel, Lovernbourg, Austria, Turkey
464	Turkey	Insuit, Austria, Lifeurera, Dubar ILIVEL Rasson Fodoration
459	Duba (UAE)	Turkery, Russian Federation
459	Russian Federation	Turkey, Duban UAD
449	Chile	Sebia
442	Serbsa	Chie, Bulgara
429	Bulgina	Serbia, Linguay Mindoo, Romania, Thadand, Trinidad and Tobago
420	Unaguay	Rulguns, Moreira, Romania, Thirland
425	Mesico	Bulgana, Uruguay, Romania, Thialand Bulgania, Uruguay, Monco, Thialand, Trimidad and Tobago
424	Romania Thailand	Bulgana, Uruguay, Micoco, Thinland, Trimdad and Tobago, Bulgana, Uruguay, Micoco, Romana, Tifriidad and Tobago, Colombia
416	Threided and Tobago	Bulgana, Uniguay, Movico, Nomania, Imnidad and rotago, Colombia Bulgana, Romania, Thailand, Colombia, Brazil
413	Colombia	Thaliand, Trinidad and Tohago, Brazil, Montenegro, Jordan
412	Brazil .	Trinidad and Tobago, Colombia, Montenegro, Jordan
408	Montenegro	Colombia, Brazil, Jordan, Turisia, Indonesia, Argentina
405	tordan	Colombia, Brazil, Montenego, Tursus, Indonesia, Agentina
404	Turena	Monterage, Jordan, Indonesa, Augustina
402	Indonesia	Montaneau, Jordan, Turinia, Arantina
398	Argentina	Montenego, Jordan, Turisia, Indonesia, Kazakhstan
390	Kazokhstan	Argentini, Albania
385	Albania	Kazakhsian, Panama
	Qalar	Penama, Peru
371	Paroma	Albanss, Qatar, Peny, Azerbaigan
370	Peru	Quize, Paramu, Azorbaijan

Source OECD PSA 2009 Dabbase Stattink NaD http://dx.dox-org/10.1787/888932343133

9

Average level of proficiency

The discussion in the previous section focuses on describing countries' performance at each of the defuned proficiency levels. Another way of summarising the difference in performance between countries is to consider their mean performance, both relative to each other and to be (OCD mean, for 98), 2009, the OCD mean is 493, with a standard deviation of 93. This establishes the benchmark against which each country's reading performance in 1985 2009 is compared.

Figure 12.15 shows each country's mean score, and allows readers to see for which pairs of countries the differences between the means shown are statistically similar. For each country shown on the left in the middle column, the list of countries on the right hand column shows countries whose mean scores are not sufficiently different to be distinguished with confidence. To fall other cases, one country has a higher performance than another if it is above it in the list in the middle column, and a lower performance if it is become for example, which Stanghsla-China clearly tanks first, the performance of Koroa, which comes second on the list, cannot be distinguished with confidence from final and Hows Koroa. China which come this dan floath researches.

Korea and Finland are the highest performing OCEO countries, with mean scores of 359 and 358 points, respectively. The partner economy Shanghai-Chian so desperioning flower box occurries by a significant mangin, with a mean score of 355. An additional group of OECO countries and partner countries and economies perform around a quarter of a standard deviation or more above the OECO mean: theo (Rosq. China (with mean of 333), Singappore (256), Canada (324), New Zealand (221) and Japan (220). Australia is not far behind with a mean score of 515. The next seven OECO countries and one partner economy have mean scores that can be confidently judged as significantly above the OECO mean: the Netherlands (508), Belgium (506, Norway (503), Estonia (501), Switzerland (507), Polland (500), Leoland (500), and Constructive of VECO countries perform at a leven to significantly different from the OECO mean: the United States, Sweden, Cermany, Ireland, Trance, Denmark, the United Kingdon, Hungary and Portugal. On entere Teconomy, Chinese Taple, I also in this category.

In comparing mean reading performance across countries, there are clear and substantial dispartites. The lowest performing OEC Journty, Mexico, has an average score of 142 points. This means that the pub between the highest and lowest performing OEC Journty is 114 points – well over one standard deviation or the equivalent of almost three school years, on average across countries. However, the gap between the parter countries/commiss is even larger, with 742 score points – over two and a half standard deviations or the equivalent of more than 6 school years – separating the mena performance of \$18 angla-4 clinks (355) and \$197,925-308. (311).

Because the figures are derived from samples, it is not possible to determine a precise rank of a country's performance among the participating countries. It is possible, however, to determine, with confidence, a range of ranks in which the country's performance level like (Figure 1.2.16).

Gender differences in performance on the reading scale

Concern about gender differences in education in much of the 20th century focused on the disadvantage and underachievement of long fish. More recently, however, the underachievement of longs in reading filteracy has become the focus of policy attention. In the PSA 2009 reading assessment, gifts outperform boys in every participating country by an average, across CPCC outsites, of 39 PSAs 2000 reading assessment gifts outperform boys in every participating equivalent of an average school year's progress (see Table A1.2). Figure 12.17 shows gender differences in reading performance for each country, Tables 12.2 and 12.2 provide further details.

While girk outperform boys in reading in every participating country, the gap is much wider in some countries than inothers. As shown in Volume III, Learning to Learn, these differences closely relate to grader differences in sudent attitudes and behaviours. With the exception of Dennask, the Northern European countries have above-average gander gaps; the most promounced of these is in Finland, where the score difference is, at 55 points, the greatest of all OECD countries. The gender differences in Stati Asian countries and economies tend to cluster just below the average, with Korea, Hung Kung China, Macao-China and Chinere Tajer all showing gaps of between 13 and 13 points. However, the highest performing among these countries and economies, Shanghail-China, also has a slightly whiter gender gap of 40 points.

In each of the country groups described above, the country with the highest or second highest mean overall is also the country with the widest gender gap; in other words, in these countries, girls are disproportionately contributing to the country's high reading proficiency. Strategies to improve boys' reading proficiency would have an accentuated effect on overall achievement.



■ Figure I.2.16 ■ Where countries rank in reading performance

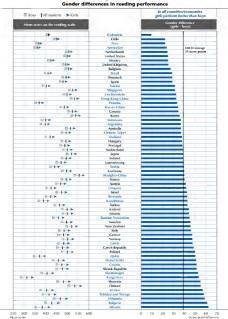
Statistically significantly above the OECD average Not statistically significantly different from the OECD average Statistically significantly below the OECD average

	10000		Readi	ng scale	-	
				Rang	e of rank	
				countries		s/economies
	Mean Score	S.E.	Upper nink	Lower rank	Upper rank	Lower rank
harghar-Chrnz	556	(2.4)			1	1
longa	539	0.5	1	2	2	- 4
inland	536	(2.3)	1	2	2	4
fong Kong-China	533	(2.1)			3	4
ingapore	526	(1.1)			5	6
Canada	524	(1.5)	3	4	5	7
New Zealand	521	(2.4)	3	5	6	9
apan	520	(3.5)	3	6	5	9
Nustralia.	515	(2.3)	5	7	8	10
Netherlands	508	(5.1)	5	13	ō	16
lelgium	506	(2.3)	7	10	10	14
Norway	503	(2.6)	7	14	10	1.6
storia	501	(7.6)		17	- 11	21
imsteerland	501	(2.4)	8	17	11	21
roland	500	(2.6)		17	- 11	22
celand	500	(1.4)	9	16	12	19
Inted States	300	(5.7)		20	1	19
echtemasin	422	(2.6)	10.7	av,	11	23
iweden	\$ 497	(2.6)	10	-	(3)	26
			17			
Sermany	497	(27)			14	26
reland	496	0.0			15	27
rance	496	0.9	17	22	14.	27
Thinese Taiper	495	(2.6)			17	27
Denmark	495	(2:1)	39	22	16	26
Anited Kingdom	494	(2.3)	15	22	19	27
tunjary	494	(3:2)	13	22	16	
Portugal	489	(3-1)	16	24	23	31
Viscao-China	487	(0.9)			27	30
taly	486	(1.6)	22	24	27	31
styra	484	0.0			27	34
iloverna	483	0.0	23	26	30	33
Streece	463	(4.3)	22	29	27	37
ipan	481	(2.0)	24	18	30	35
Zech Republic	478	(2.9)	24	29	31	37
ilovak Republic	477	(2.9)	25	29	32	37
номак керибас Гозара	476	(2.9)	25	29	31	37
seacl	474	(2-9)	26	31	33	40
				31		39
ummbourg	472	(1.3)	29		36	
Nustria	470	(2.9)	29	32	36	-41
athuarea	468	(2.4)			38	41
turkey	464	(3.5)	31		39	43
Dubas (UAE)	459	(1.1)			41	43
Russian Federation	459	(3-3)			- 61	43
hile	449	(3:1)	33	33	64	44
ierbia	442	(2.4)			45	46
Bulgaria	429	(6.7)			45	50
Anagonay	426	(2-6)			46	50
Victoco	425	(2.0)	34	34	46	49
iomana	424				46	50
habed	421	0.6			47	51
Intridad and Tobago	416	(1.2)			50	52
Colombia	413	(3.7)			50	55
Brazel	412	(2.7)			51	54
Auntenegro	405	(2.7)			53	56
aumenegro cedan	405	(17)			53	56
	405		_		53	58
undia		(2.9)				
ndonesia	402	(3-7)			54	58
Argentina	398	(1-6)			55	59
Cazakhstan	390	(3:1)			58	60
Ultima	385	(4.0)			59	60
Datar	372	(0-6)			61	63
anama	371	(5.5)			61	54
Yersi .	370	(5 C)			61	64
(zerbiijan	362	(3-3)			63	64
Cyrgyzstan	314	(3-3)			65	65

Source OECD, PSA 2009 Distribuse Stations agos http://dx.doi.org/10.1797/888932343133



■ Figure I. 2.17 ■



Note: All gender differences are statistically significant (see Annex A3). Countries are ranked in ascending order of the gender score point difference (girls - boys) Source: OFCD. PISA 2009 Database. Table L2.3.

Statilink 49059 http://dx.doi.org/10-1797/889932943133



Yet there is no obvious pattern regarding gender performance among groups of countries with lower performance overall. For example, among the group of Latin American countries, both the highest performing overall (Chile) and the lowest performing (Peru) have the same, relatively small, gender gap (22 points). One of the middle-ranking, countries within this group, Colombia, has by far the smallest gender gap of any country, with a difference of only 9 scree points between the means for girls and boys.

How large are these gender differences in terms of the average level of proficiency that boys and girls achieve? One way to think of this is to consider where most boys and girls all in their highest level of proficiency, Aca ca he seen in Figure 12.18, the most common highest proficiency level for both boys and girls is Level 3, but whereas almost as many boys are at Level 2 as Level 3, for girls, Level 4 is the second most common level attained. Another way to compare performance around the middle of the reading scale is by noting that half of boys 51'59 but only a third of girls 6.19% joil for seach Level 3, which is associated with biseding also be perform the kinds of tasks that are commonly demanded of young and older adults in their everyday lives. This represents a major difference in the capabilities of boys and girls at use 15.

Figure L2.18 =

How proficient are girls and boys in reading?

OECD average percentages of boys and girls who performed at the different levels of reading proficiency.



Source: OECD, PISA 2009 Database, Table L2.2.
StatLink Nagr https://dx.doi.org/10.1787/8889224123

Grader differences are also important when comparing the number of students with particularly low levels of trading proficiency. Epitheen countries had more than SOF (or 15-year-sled low) performing below (evel 2 on the reading scale, but only five countries showed the same proportion of gifs at that level. Across OCCD countries, only about half as among gifs as tops perform below used (2), but the cales varies according to reveall country performance. In countries with generally low levels of performance in reading, the proportions of gifs and boys performing below level 2 and to be similar for example, there are at least four diffs of the number of gifs as boys who perform below Level 2 in Colombia, Krigyzstan, Azerbaijan, Pera and Panama, all of which have low mon are displayed to the contribution of the contrib

Some of the variations in boys' and girls' proficiency across different aspects and text formats will emerge in the discussion of the reading subscales in the sections that follow. Such variations provide insights into the areas that reading curricula and pedagogy could focus on in an effort to close the gender gap by improving boys' access to and engagement with different kinds of reading tasks and diverse texts. Again, some of these differences are related to gender differences in attitudes and behavious, which are discussed in Volume 1.



STUDENT PERFORMANCE IN DIFFERENT AREAS OF READING ACROSS PARTICIPATING COUNTRIES

This section takes a more nuanced look at reading performance by analysing student performance at the level of the reading subscales—the aspect subscales access and retrieve, integrate and interpret and reflect and evaluate; and the terriformat subscales continuous and non-continuous.

Aspect subscales

Student performance on the access and retrieve reading subscale

About one-quarter of the questions in the pool of reading tasks in PISA 2009 were assigned to the access and retrieve subscale. As noted before, tasks classified as access and retrieve involve skills associated with finding, selecting and collecting information. Sometimes finding the required information is relatively implie, as it is directly and plainly stated in the text. However, access and retrieve tasks are not necessarily easy ones. For example, sometimes more than one piece of information is required; sometimes knowledge of text structures and features is called upon.

In assessment task that call for retrieving information, students usually must match information given in the question with other identifically worsder or synonymous information in the test, and use this to tailful provinces information requested. Easy retrieval task scharacteristically require a literal match between the words of the task and the worsding in the test. More difficult retrieval tasks characteristically require a literal match between the words of the task and the worsding in the test. More difficult retrieval tasks characteristically require a literal match between the words of the task and the worsding in the test. More difficult retrieval tasks up synonymous information, forming mental categories to the best of the second of

■ Figure I.2.19 ■

Summary descriptions of the seven proficiency levels on the reading subscale access and retrieve

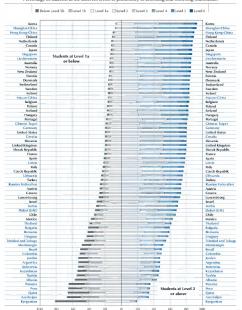
Level	Percentage of students able to perform tasks at each level or above (OECD average)	Characteristics of tasks	Examples of released access and retrieve questions
6	1.4% of students across the OECD can perform tasks at Level 6	Combine multiple pieces of independent information, from different parts of a mixed text, in an accurate and precise sequence, working in an unfamiliar context.	
5	9.5% of students across the OECD can perform tasks at least at Level 5	Locate and possibly combine multiple pieces of deeply embedded information, some of which may be outside the main body of the text. Deal with strongly distracting competing information.	
4	30.4% of students across the OECD can perform tasks at least at Level 4	Locate several pieces of embedded information, each of which may need to meet multiple critieria, in a text with unfamiliar context or form. Possibly combine verbal and graphical information. Deal with extensive and/or prominent competing information.	BALLOON – Question 3.2 (595
3	57.9% of students across the OECD can perform tasks at least at Level 3	Locate several pieces of information, each of which may need to meet multiple criteria. Combine pieces of information within a text. Deal with competing information.	
2	80.4% of students across the OECD can perform tasks at least at Level 2	Locate one or more pieces of information, each of which may need to meet multiple criteria. Deal with some competing information.	BALLOON –Question 3.2 (449)
1a	93.0% of students across the OECD can perform tasks at least at Level 1a	Locate one or more independent pieces of explicitly stated information meeting a single criterion, by making a literal or synonymous match. The target information, not be prominent in the text but there is little or no competing information.	BRUSHING YOUR TEETH – Question 2 (358)
1b	98.0% of students across the OECD can perform tasks at least at Level 1b	Locate a single piece of explicitly stated information in a prominent position in a simple text, by making a literal or synonymous match, where there is no competing information. May make simple connections between	MISER – Question 7 (310) BRUSHING YOUR TEETH – Question 3 (285)

adjacent pieces of information.

A PROFILE OF STUDENT PERFORMANCE IN READING

Figure I. 2.20 ■

How well do students access and retrieve information from what they read? Percentage of students at the different levels of proficiency in accessing and retrieving information



Percentage of students

Countries are ranked in descending order of the percentage of students at Levels 2, 3, 4, 5 and 6 Source: OECD, PISA 2009 Dutabase, Table L2.4.

SeatLink @05 http://dx.doi.org/10.1787/888932343133



Figure 1.2.19 provides descriptions of the nature of the reading skills, knowledge and understanding required at each level of the scale for the access and retrieve aspect of reading, with the percentage of students across DECD countries who perform at this level in PISA 2009. The right-hand column lists examples of access and retrieve questions. Figures 12.40 to 12.46 describe these questions and provide commentary on what they show.

Figure 1.2.20 shows the percentage of students at each proficiency level on the access and retrieve subscale. Details of performance by gender on this subscale are also provided in Table 1.2.5.

The mean score for OECD countries on the access and retrieve subscale is 495 points, slightly higher than the mean for reading as a whole. The distribution of performance is more dispersed on the access and retrieve subscale than on the overall reading scale. The student deviation was 101 points compared with 93 points for the overall reading scale). The higher mean and wider distribution suggest that more students performed at very high levels on the access and reviewe subscale than on the overall reading liceasy scale. The countries or economies yielded more than 3% of students at Level 6: the OECO countries lapan, Finland and New Zealand, as well as the pattern countries and economies Shanghal China and Singapore. In Shanghal China, 710 of students will a still a strength of the scale of the state of the scale of the scale

Figure 1.2.1 shows each country's mean score on the access and retrieve subscale, and allows readers to see for which pains of countries the differences between the means show are statistically significant. For each country shown on the left in the middle column, the list of countries on the right hand column shows countries whose mean scores are not sufficiently different to be disliquided with confidence. For all other cases, one country has higher performance than another if it is above it in the list in the middle column, and lower performance if it is below it.

Table 1.2.6 presents the mean score, variation and gender difference for each country on this subscale. As on the owcell reading scale, grist performed more strongly than hops on the access and retrieve subscale in every country except in Colombia, where the difference is not significant. The mean difference was similar to the reading scale (dQ points and 39 points, respectively).

Student performance on the integrate and interpret reading subscale

As noted before, the aspect integrate and integree timobes processing what is read to make internal sense of a text integrating tasks require the reader to understand the relations between different parts of a text. These relations include problem-solution, cause-effect, category-example, equivalency, compare-contrast, and understanding whole-part relationships. To complete such tasks, students had to determine the appropriate connection, in easier tasks this may be explicitly signalled, as when the text states "the cause of X is Y"; in more difficult tasks, an inference may be required by the reader. The parts to be related may be more and other in the text or in different paragraphs or even in different texts. Interpreting refers to the process of making meaning from something that is not stated. It may involve recognising a relationship that it not explicit or inferring. But its declaring from something that is caused in the categories of the process of making meaning from something that is caused in the categories of the process of making meaning from something that it is caused to a support of the process of making meaning from something that it is caused to be a support of the process of making meaning from something that is declaring from something that is declaring from something that it is a support of the process of making meaning from something that it is a support of the process of making meaning from something that it is a support of the process of making meaning from something that it is a support of the process of making meaning from something that it is a support of the process of making meaning from something that it is a support of the process of making meaning from something that it is a support of the process of making meaning from something that it is a support of the process of making meaning from something that it is a support of the process of making meaning from something that it is a support of the process of the process of making meaning that it is a support of the process of the proc

With around half of the questions in the pool of PISA reading tasks assigned to the integrate and interpret subscale, it encompasses a wide spectrum both in cognitive characteristics and difficulty. The difficulty of these tasks is determined by the number of pieces of information to be integrated and the number of locations where they are found, as well as by the verbal complexity and the familiarity of the subject.

Figure 1.22 provides details of the nature of the reading skills, knowledge and understanding required at each level of the described proficiency scale for the integrate and interpret aspect of reading, with the percentage of students across OCED countries who performed at this level in PSA 2009. The right hand column shows examples of released integrate and interpret questions. Figures 1.2.40 to 1.2.46 describe these questions and comments on what they show.



■ Figure I.2.21 ■

Comparing countries on access and retrieve performance

Statistically significantly above the OECD average Not statistically significantly different from the OECD average Statistically significantly below the OECD average Countries whose mean score is NOT statistically significantly different from that of the comparison country Shanghar-China Kono Shorgho-Chira 532 Finland Jupan, Hong Kong-China Finland, Hong Kong-China, Singapore, Natherland Hong Kong-China Japan, Hong Kong-China, Netherlands Singapore New Zealand Netherlands Jopan, Hong Kong-China, Singapore, New Zeoland, Corada, Belgium, Australia, Norway, Liechtenstein New Zeoland, Notherlands, Belgium, Australia, Nerway Canada Netherlands, Canada, Australia, Norway, Lachtenson Brigum Australia Netherlands, Canada, Bulgium, Norway, Linchtondein 512 Norway Netherlands, Canada, Belgium, Australia, Lechtonson, Kolland, Switzerland, Swiden Lechtenstee Netherlands, Belgium, Australia, Norway, Icoland, Switzerland, Swoden, Estonia, Deemark, Hungary, Gomany, Poland, Instand Switzerland Norway, Lechterston, Iceland, Sweden, Estonia, Denmark, Hungary, Germany, Poland, Iroland Norway, Lechterstein, Icoland, Switzerland, Estanua, Denmark, Hungary, Germany, Paland, Indiand Sweden Estoriu Exchination Iceland, Switzerland, Sweden, Dommirk, Hungary, Corming, Poland, Incland, Chinese Tripo LecMenstein, Iceland, Switzerland, Swieden, Estonia, Hungary, Germany. Hungary Liechtenstein, Iceland, Switzerland, Sweden, Estonia, Denmark, Germany, Poland, Ireland, Chinese Tripel, Chinesi States, France Germany Locktonstein, Iceland, Switzerland, Sweden, Estonia, Denmark, Hungary, Poland, Ireland, Chrose-Tapes, Linted States, France, Creates DecMonston, Switzerfund, Sweden, Estonia, Denmark, Hangary, Germany, Iroland, Chinese Tarpes, United States, France Estatus, Denmark, Hungary, Germany, Poland, Indand, Macao-China, United States, France, Croste, United Kingdom, Slovek Republic, Portugal belied, Chrisse Tager, United States, France, Croatia, Linked Kingdom, Slovak Republic, Portugal Hungary, Cernary, Poland, Iseland, Chanese Tapes, Macao-China, France, Croate, United Kingdom, Slovak Republic, Slovene, Portugal United States France Germany, Ireland, Chinese Taipes, Macao-China, United States, France, United Kingdom, Slovak Republic, Slovenia, Portugal United Kingdom 491 Slovak Republic Slovenia United States, France, Croatia, Linked Kingdom, Slovak Re-public, Portugal Portugal Chinese Taiper, Macao-China, United States, France, Cicatia, United Kingdom, Slovak Republic, Slovenia, Italy Italy Portugal, Spain, Czech Republic, Austra, Lithureso, Latvo Speen Balv, Czech Republic, Austria, Lithuania, Latvo Italy, Spern, Austro, Edhuania, Latvia Austria Luxembourg Austra, Lithunia, Latva, Russon Federation, Greece, Turkey, Israel Russan Federation Greece Turkey Eusembourg, Russian Federation, Greece, Turkey, Duber (UAE) Chik Serbiu, Bulgana Mesaco Theknd Mexico, Bulgaro, Uruguay, Rassansa Thirland, Bulgana, Romania Transled and Tobugo, Montenagra, Colombia, Indonesia, Kazaidhitan Colombia Montenegro, Bruzil, Colombia, Kuzuldhitan, Augentina, Jordan, Tunisia Kazakhstan Brazil, Colombia, Indonesia, Argentina, Jordan, Tunisca Colombia, Indonesia, Kazakhstan, Amerikna, Tuni Indonesia, Kuzakhsten, Argentine, Jordan Panama Albania, Peru, Azerbaijas, Quas Panama, Azorbaryan 354 Qatar

Source: OECD, PISA 2009 Database Station with http://dx.doi.org/10.1787/888932343133



Figure 1.2.22 = ummary descriptions of the seven proficiency levels on the reading subsca

	Percentage of students		
Level	able to perform tasks at each level or above (OECD average)	Characteristics of tasks	Examples of released integrate and interpret question
6	1.1% of students across the OECD can perform tasks at Level 6	Make multiple inferences, comparisons and contrasts that are both detailed and precise. Demonstrate a full and detailed understanding of the whole too to specific sections. May involve integrating information from more than one text. Deal with unfamiliar abstract ideas, in the presence of prominent competing information. Generate abstract categories for interpretations.	THE PLAY'S THE THING — Question 3 (730)
	8.3% of students across the OECD can perform tasks at least at Level 5	Demonstrate a full and detailed understanding of a text. Construe the meaning of nuanced language. Apply criteria to examples scattered through a text, using high level inference. Generate categories to describe relationships between parts of a text. Deal with ideas that are contrary to expectations.	
	28.4% of students across the OECD can perform tasks at least at Level 4	Use test-based inferences to understand and apply categories in an unfamiliar context, and to construct the meaning of a section of test by taking into account the text as a whole. Deal with ambiguities and ideas that are negatively worked.	MOBILE PHONE SAFETY – Question 2 (561) THE PLAY'S THE THING – Question 7 (556)
3	56.6% of students across the OECD can perform tasks at least at Level 3	Integrate several parts of a text in order to identify the main idea, understand a relationship or construe the meaning of a word or phrase. Compare, contrast or categorise taking many enteria into account. Deal with competing information.	MISER - Question 5 (548) TELECOMMUTING - Question 1 (537) MOBILE PHONE SAFETY - Question 9 (488)
2	80.7% of students across the OECD can perform tasks at least at Level 2	Identify the main idea in a text, understand relationships, form or apply simple categories, or construe meaning within a limited part of the text when the information is not prominent and low-level inferences are required.	THE PLAY'S THE THING – Question 4 (474) BLOOD DONATION NOTICE – Question 8 (438)
1 a	94.3% of students across the OECD can perform tasks at least at Level 1a	Recognise the main theme or author's purpose in a text about a familiar topic, when the required information in the text is prominent.	MISER - Question 1 (373) BALLOON - Question 8 (370) BRUSHING YOUR TEETH - Question 1 (353)
1b	98.9% of students across the OECD can perform tasks at least at Level 1b	Either recognise a simple idea that is reinforced several times in the text (possibly with picture cues), or interpret a phrase, in a short text on a familiar topic.	

Figure 1.2.23 shows the percentage of students at each proficiency level on the integrate and interpret subscale. Details of performance by gender on this subscale are provided in Table 1.2.8.

Because such a large proportion – nearly 50% – of the questions in the PISA 2009 roading assessment contributed to this subscale, most of the features of the integrate and interpressubscale are similar to three of the overall roading scale. The two are virtually indistinguishable in terms of mean and spread of performance across OECD countries: the average for the integrate and interpressubscale has a mean of 493 and standard deviation of 94, while for the overall reading scale, the figuress are 93 and 93, sepsectively.

The spread of performance on the integrate and interpret subscale is also very close to that of the overall roading scale. Across OCCD countries, the largest percentage of studerins – 28% – performed at Level 3 on this subscale, in New Zealand and in the partner countries and economies Singapore and Shanghai-China, more than 3% of students performed at Level 5. In several countries and economies Singapore and Shanghai-China, more than 3% of students performed at Level 5. In several countries in and economies Shanghai-China Assemble of combined over 10% in the OCCD countries finland, New Zealand, Korea, Japan, Canada, Australia, Bedjum, France, the Netherlands and the United States, and in the partner countries and economies Shanghai-China, Singapore and Hong Kingo China. The high performance in these countries was not confined to a small ellite for example, in Finland and Korea, and in partner economy Shanghai-China, the largest performance in these countries was not confined to a small ellite for example, in Finland and Korea, and in partner economy Shanghai-China, the largest performance of the countries was not confined to a small ellite for example, in Finland and Korea, and in partner economy Shanghai-China, the largest performance and the second state of the countries was not confined to a small ellite for example, in Finland and Korea, and in partner economy Shanghai-China, the largest proportions of students—above 30% in each case—were proficion at Level 4.

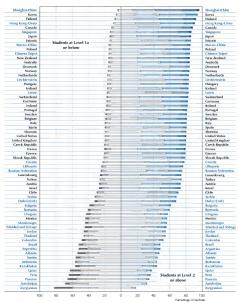


■ Figure I. 2.23 ■

How well do students integrate and interpret what they read?

Percentage of students at the different proficiency levels in integrating and interpreting what they read

■ Below Level 1b ■ Level 1b ■ Level 1a ■ Level 2 ■ Level 3 ■ Level 4 ■ Level 5 ■ Level 6



Countries are ranked in descending order of the percentage of students at Levels 2, 3, 4, 5 and 6. Source: OECD, PISA 2009 Database, Table L2.7

Station (100) http://dx.doi.org/10.1787/888932343133



■ Figure 1.2.24 ■ Comparing countries on integrate and interpret performance

Statistically significantly above the OFCD average Not statistically significantly different from the OECD average Statistically significantly below the OECD average Countries whose mean score is NOT statistically significantly different from the comparison country Shanahar-China Enland Singapore, Japan, New Zealand Singapore, Canada, New Zealand, Australia Canada, Japan, Australia Japan New Zealand upin, New Zealand, Netherlands Australia Netherlands japan, New Jossano, Netherlands Australia, Belgum, Poland, Icoland, Norway, Switzerland, Germany, Estonia, Chinase Taipei, Luchterstein, France, Hungary, United States Swider, Instand
Netherlands, Paland, Robard, Norway Switzerland, Germany, Februa, Chinese Tapes, Lischienstein, France, Hungary, United States Solgram Netherlands, Belgium, Icoland, Noway, Switzerland, Germany, Estania, Chinine Tupes, Luchterstein, France, Hargory, United States Poland Netherlands, Belgium, Poland, Norway Switzerland, Germany, Estona, Chinese Taipes, Liechtenstein, France, Hungary United States mencurum, engan rusun, under swizzenich Lemins, teins, Limine topp, Lectimens, Frazik, Tuppy Untel Stein Michael, de jegen Richa Colmi, Swizzeld Commis (1980), Limine topp, Lectimens, Frazik Frazik, Swizzel Steins, Swizzel Notherlands, Belgum, Poland, todard, Norway, Switzerland, Commung Estona, Luchtenstein, France, Hungary, United States, Sweden, Indian Notherlands, Belgum, Poland, Indiand, Norway, Switzerland, Commune, Estonia, Chrosse Taipel, France, Hungary, United States, Sweden, Indian Ireland, Deemsek, United Kingdom, Buly Netherlands, Belgium, Poland, Yoshind, Norway, Switzerland, Germany, Estonia, Chinese Tapes, Leichtenstein, Fran Ireland, Denmark, United Kingdom, Bully Czech Republic Nethorlands, Beliaum, Poland, Icoland, Norwox, Switzedard, Germany, Fatura, Chinese Telesy, Larchtenstein, Fiorice, Hurszay, Swoden, Iroland United States Denmark, United Kingdom, Italy Slovense, Macao-China, Czech Republic, Portugal Netherlands, Narway Switzerland, Cermany, Edunia, Chinese Esper, Lechtendern, Fonce, Hungory, United States, Ireland, Denmark, United Notherlands, Germany, Estonia, Chinese Tarpei, Lechtanstein, France, Hungary, United States, Sweden, Denmark, United Kingdom, Italy, Slov treland Macao-Chris, Crech Republic, Portugal, Greece Dechtmitten, France, Hungary, Lindsel States, Sweden, Insland, Lindrell Krapdom, Haly, Slovenas, Macao-China, Creek Ropoblac, Portugal, Greece Lalvia, Greece Skweria Macao-Chin United States, Sweden, Ireland, Denmark, United Kingdom, Taly, Slovenia, Creech Republic, Portugal, Labra, Greece.
Hungary, United States, Sweden, Ireland, Denmark, United Kingdom, Italy, Slovenia, Macco China, Portugal, Labras, Greece, Slovak Republic Czech Republic United States, Sweden, Iroland, Denmark, United Kingdom, Italy Slovenia, Marcao China, Czech Republic, Latvia, Greece, Slovak Republic, Spain United Kingdom, Italy, Slovenia, Macao China, Czech Republic, Portugal, Greece, Slovak Republic, Spein Ireland, Denmark, United Kingdom, Baly Slovens, Macao-China, Carch Republic, Portugal, Lativa, Slovak Republic, Spain Slovak Republic 481 Spain Fortugal, Larvia, Greece, Slovak Republic Lusembourg Israel, Croana, Austria Slovak Republic, Luxembourg, Crostia, Austria, Ethusnia, Russian Federation Israel Lusenbourg, Israel, Austria, Ethiumia, Russian Federation 471 Austria Lithuaria Israel, Croatia, Austria, Russian Federation Israel, Croatos, Austria, Lithuania, Turkey Turkey Russian Federation, Dubai (UAF), Chile Turkey, Chile Chile Barkey, Dubus (UAE), Serbs Chile, Bulgaria Bulgana, Uruguay Monteregro, Travidad and Tobago, Mexico, Thailand Romania, Uruguay Montenegro, Mexico, Thelland, Colombia Romania, Uruguay Montenegro, Treaded and Tobuga, Thelland, Colombia Romania, Uruguay Montenegro, Treaded and Tobuga, Mexico, Colombia, Jordan Colombia, Jordan, Argentina Brazif, Indonesia, Kazakhstan, Tennika, Albania

Source: OECD, PISA 2009 Distribuse Statilion (2000 http://ds.doi.org/10.1797/889932343133



At the other end of the proficiency range, few countries had very large numbers of students performing below the range of described levels in PSA, but there were severed partner countries with more than 10% of students performing below Level 1b; Kyrgoztan, Peru, Quste, Panson and Aggeritan. The modal performance of a substantial number of countries on the reading case was at level 1a on the integral and heteport subscisse, and several partner countries showed over 30% of students performing at this level: Azerbaijan, Indonesia, Thailand, Tunisia, Karabashan and Profits.

Figure 12.24 shows each country's mean score on the integrate and interpret subscale, and shows for which pairs of countries the differences between the means shown are satisfically significant. For each country shown on the left in the middle column, the list of countries on the right hand column shows countries whose mean scores are not sufficiently different to be distinguished with confidence. For all offerer cases, one country has higher performance than another fit is above it in the list in the middle column, and lower performance fit is below.

Table 1.2.9 presents the mean score, variation and grader difference for each country on this subscale. As on the world meding excle, gifs performed more strongly than boys in every country on the integrate and interpret subscale. There is a slightly smaller gap between girls' and boys' performance on this subscale (26 compared with 39). Nevertheless, in 36 countries the gap was more than half of one proficerry level, and in severa of beine OECC outsities Finder and Slovenia, and the partner countries Albania, Libratia, Bulgaria, Jordan and Tinriada and Tokaga), it is over 50 points. The appearance of finland in this group indicates that extreme gender inequality in performance can co-exist with high overall performance. The performance to those in Finland on this subscale (513), as on the overall reading scale (508), is still well above the OECO average. Colombia exhibits by far the smallest gender gap here as desenbere in reading, with gifs to upperforming boy by only eight points.

Figure 1.2.25 =
Summary descriptions of the seven proficiency levels on the reading subscale reflect and evaluate

reflect and evaluate.

	reflect and evaluate						
Level	Percentage of students able to perform tasks at each level or above (OECD average)	Characteristics of tasks	Examples of released reflect and evaluate questions				
6	1.2% of students across the OECD can perform tasks at Level 6	Hypothesise about or critically evaluate a complex text on an unfamiliar topic, taking into account multiple criteria or perspectives, and applying sophisticated understandings from beyond the text. Generate categories for evaluating text features in terms of appropriateness for an audience.					
	8.8% of students across the OECD can perform tasks at least at Level 5	Hypothesise about a text, drawing on specialised knowledge, and on deep understanding of long or complex texts that contain ideas contrary to expectations. Critically analyse and evaluate potential or real inconsidencies, either within the text or between the text and ideas outside the text.					
	29.5% of students across the OECD can perform tasks at least at Level 4	Use formal or public knowledge to hypothesise about or critically evaluate a text. Show accurate understanding of long or complex texts.	MOBILE PHONE SAFETY – Question 11 (604)				
3	57.7% of students across the OECD can perform tasks at least at Level 3	Make connections or comparisons, give explanations, or evaluate a feature of a text. Demonstrate a detailed understanding of the text in relation to familiar, everyday knowledge, or draw on less common knowledge.	MOBILE PHONE SAFETY – Question 6 (526) TELECOMMUTING – Question 7 (514) BALLOON – Question 4 (S10)				
2	80.7% of students across the OECD can perform tasks at least at Level 2	Make a comparison or connections between the text and outside knowledge, or explain a feature of the text by drawing on personal experience or attitudes.	BALLOON – Question 6 (411)				
1 a	93.5% of students across the OECD can perform tasks at least at Level 1a	Make a simple connection between information in the text and common, everyday knowledge.	BRUSHING YOUR TEETH – Question 4 (399) BLOOD DONATION NOTICE Question 9 (368)				
1b	98.4% of students across the OECD can perform tasks at least at Level 1b	There are no questions at this level in the existing reading question pool.					

8

Student performance on the reflect and evaluate reading subscale

Reflect and evaluate tasks involve engaging with a text while drawing on information, ideas or values external to the text. In reflecting on a text, readers relate their own experience or innovidege to the text. In evaluating a text, readers make a judgment about it, either drawing on personal experience or on knowledge of the world that may be formal or content-based. Reflecting on and evaluating the content of a text requires the reader to connect information in a text to knowledge from outsides sources, to do so, neaders must be able to understand what is said and intended in a text. They must then text that mental representation against what they know and believe on the basis of either prior information or information found in other texts. Reflecting on and evaluating the form of a text requires readers to stand apart from the text, consider it objectively and evaluate its quality and appropriateness. Knowledge of text structure, the style pixal of different lating of texts and register play an important tool in the texts.

About one-quarter of the questions in the pool of reading tasks for PSA 2009 address the reflect and evaluate aspect. The difficulty of queetions with this classification is determined by several factors, including the quantity and explicit tesses of individual to support reflection and evaluation, and the center to which the information is common knowledge. It can tasks require the reader to relate a test dealing with a familiar topic to familiar and personal removelege. It can tasks the queetion provides a clear affection to the reader about the series the individual form more complex tests on taylors that are not within the reader's immediate experience, require the reader to evaluate the structure or content of the test design on formal standards, or to hypothesia about some element of the test daying on formal standards, or to hypothesia about some element of the test days on the structure or content of the test days on the structure or content of the test days on the structure or content of the test days on the structure or content of the test, and the structure or content of the test days on the structure or content of the test, such as why it is presented in a particular form, using criteria that are not provided. Readers need to generate their own terms of reference using internalized standards of reference and plausability.

Figure 1.2.75 provides details of the nature of the reading skills, knowledge and understanding required at each level of the profile row, scale for the refile card evaluate aspect of reading, along with the percentage of students across OLCO countries who perform at this lovel in PSA 2009. The right hand column shows examples of released reflect and evaluate squestions. Figures 1.2.6 to 10.2.46 describe these questions and provide commentary on what they show.

Figure 1.2.26 shows the percentage of students at each proficiency level on the reflect and evaluate subscale. Details of performance by gender on this subscale are also provided in Table 1.2.11.

Mean performance across OCCD countries was slightly higher on the reflect and evaluate subscale than on the ownell reading scale (994 companed with 939 points, and was also slightly more dispersed it standard deviation of 97 companed with 23). Some high performing countries on the ownell reading literate scale show particularly of the countries of the countries

Figure 1.2.27 shows each country's mean score on the reflect and evaluable subscale, and shows for which pairs of countries the differences between the means shown are statistically significant. For each country shown on the left in the middle column, the list of countries on the right hand column shows countries whose mean scores are not sufficiently different to be distinguished with confidence. For all other cases, one country has higher performance than another fit it show it in the list in the middle column, and lower performance if it is below. It

Table 1.2.12 presents the mean and standard deviation overall, means for boys and girls and gender difference, presence flux sore, variation and gender difference for each country on this subscale. As on the overall reading scale, girls universally performed better than boys in every country on the reflect and evaluate subscale. There is a large anerge gap between girls' and boys performance on this abscale than on the overall reading scale (44 compared with 39). The scale also shows the largest gaps over all in countries, of up to 70 points – almost a full proficiency level. The OCCD country Slovenia and 7 partner countries have a gender gap of at least 60 points. Albania, Bulgaria, Trinickad and Tolago, Jordan, Libanaia, Constit and Mosterego. The of these eight countries are in southeastern Europe, where there appears to be some tendency for boys to be particularly week in reflection and evaluation relative togics. As an example, in Bulgaria, only 24% of they but 43% of gift achieve at least teed 70.

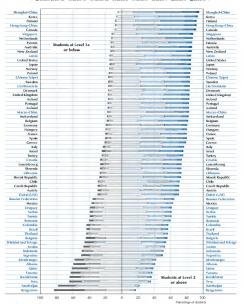


Figure I. 2.26

How well do students reflect on and evaluate what they read?

Percentage of students at the different proficiency levels in reflecting and evaluating what they read

■ Below Level 1b ■ Level 1b □ Level 1a □ Level 2 ■ Level 3 ■ Level 4 ■ Level 5 ■ Level 6



Countries are ranked in descending order of the percentage of students at Levels 2, 3, 4, 5 and 6 Source: OECD, PISA 2009 Database, Table 1.2-10.

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■ Figure 1.2.27 ■

Comparing countries on reflect and evaluate performance

Substically significantly above the OECD average Not statistically significantly different from the OECD average

		Not statistically agenticately different from the OECD average
		Substically significantly below the OECD average
Mean	Comparison country	Countries whose mean score is NOT statistically significantly different from that of the comparison country
557	Shanghai-China	
542	Korea Hong Kong-China	Hong Kong China, Finland, Canada Kons, Finland, Canada
536	Finland	Kores, Hong Kong-China, Canada, New Zeoland
535	Canada	Korea, Hang Kong-Chena, Finland, New Zealand
531	New Zeoland	Fitland, Canada, Segapore
529	Singapore	New Zuland
523	Australia	Japan
521	Japan	Australia, United States, Notherlands
	United States	Japan, Netherlands, Belgium, Nonasy, Ireland
510	Netherlands	Japan, United States, Belgium, Norway, Limited Kingdom, Estonia, Ireland, Sweden
505 505	Belgum Norwiy	United States, Netherlands, Norway, United Kingdom, Estonia, Iroland, Sweden, Luchterstein United States, Nietherlands, Belgium, United Kingdom, Estonia, Iroland, Sweden, Paland, Lochtenstein
903	United Kingdom	Netherlands, Belgium, Norway, Estima, Iroland, Sweden, Poland, Liechtenstein, Switzerland, Portugal, France
503	Estoria	Netherlands, Belgium, Norway, United Kingdom, Indand, Sweden, Poland, Linchtameen, Switzerland, Portugal, France
502	treland	United States, Netherlands, Belgum, Norway United Kingdom, Estonia, Sweden, Poland, Liechtenstein, Switzerland, Portugal, Iceland, France
502	Sweden	Netherlands, Belgium, Norway, United Kingdom, Estonia, Instand, Poland, Eschienders, Switzerland, Portugal, Instand, France
496	Poland	Norway, United Kingdom, Estocks, Ireland, Swedon, Lechterstein, Switzerland, Portugal, Icoland, France, Orimark, Chriese Topes, Lohis,
		Germany, Groece
498	Liechtonston	Belgium, Norway, United Kingdom, Esteniu, Ireland, Sweden, Poland, Switzedand, Postugal, Iceland, France, Denmark, Chinese Taper, Lahvu, Germany, Greece, Hungary
497	Switzerland	United Kingdom, Esterna, Indand, Swedon, Poland, Lischtamaen, Portugal, Icoland, France, Demarak, Chance Tapel, Litvas, Germany, Good Hungary
496	Portugal	Unstell Kingdom, Estonia, Iroland, Swedom, Poland, Liechtomann, Switzerland, Icoland, France, Deserork, Chinese Tapes, Latvia, Germany, Greece, Hungary
496	tceland	Ireland, Sweden Poland, Liechtenstein, Switzerfund, Portugal, France, Denmark, Chinese Tapes, Latina, Germany, Greece
495	Franco	Ursted Krogdom, Infand, Sweden, Poland, Luchtenstein, Suctaerland, Pertagol, Isoland, Dennark, Chrisne Jupe, Latva, Germany, Greece, Hangary
493	Denmark	Poland, Lixchtenden, Switzerland, Portugal, Iceland, France, Chense Tarper, Lithiu, Germany, Creece, Hungary
493	Chinese Taipes	Poland, Lechterstein, Switzerland, Rotugal, Iceland, France, Denmark, Lahra, Germany, Greece, Hungary
492	Germany	Poland, Liechtenstein, Switzerland, Portugal, Iceland, France, Demmark, Chinese Tapes, Germany, Greece, Hungary, Israel
491	Greece	Poland, Lechtenstein, Switzerland, Portagal, Lesland, France, Denmark, Chinese Taiper, Latva, Grecce, Hungary, Israel Priland, Lischtenstein, Switzerland, Portagal, Lesland, France, Denmark, Chinese Taiper, Lithia, Germany, Hungary, Spain, Haol, Haly, Macco-Chin
489	Hungary	Dechleration, Switzwland, Portugal, Econor, Chinese Tripes, Labria, Germany, Greco, Scian, Israel, Taly Unchleration, Switzwland, Portugal, Econor, Germanic, Chinese Tripes, Labria, Germany, Greco, Scian, Israel, Taly
483	Sode	Green, Hungary, Israel, Billy Micro-China
483	turael	Libra, Germany, Green, Hangany, Soain, Italy, Maccao Chine, Turkey
482	Hally	Greece, Hungary, Spare, Israel, Macaro-China
451	Macao-China	Greece, Spaint, Intell, Italy
473	Turkey	Israel, Croatia, Luxembourg, Slovena, Slovak Republic, Dubai (UAE), Austria
471	Crookia	Turkey, Lucombourg, Slovenia, Shruck Republic, Duber (LMT), Lithunnia, Avetra, Czech Republic
471	Luxembourg	Turkey, Crostili, Stosenia, Stosak Republic
470	Slovenia	Turkey, Croatia, Lutembourg, Slovok Republic
466	Slovak Republic Dubar (UAE)	Turkey, Creatus, Lutermbourg, Slovense, Dubei (UAE), Lithuansa, Austria, Czech Republic Turkey, Creatus, Slovek Republic, Lithuansa, Austria, Czech Republic
468	Difference	Crosss, Slovak Republic, Dubal (UAE), Austria, Caech Republic
463	Austria	Turkey, Creatis, Slouck Republic, Dubai (LAC), Lithuania, Carch Republic
462	Czech Republic	Crozna, Slovak Republic, Dubar (UAE), Lithuania, Austria
452	Chile	
441	Russian Federation	Uruguay
436	Uruguay	Russon Federation, Mesoco, Serbu, Romania
432	Mesoco	Uruguzy, Serbia, Turnsuz, Romansa
430	Serbia	Uruguzy, Menico, Tunisso, Romena, Braiel, Colombia, Bulgaria
427	Tunsa	Mexico, Serbia, Romania, Brazil, Colombia, Thailand, Bulguna
426	Romana	Uruguay, Mexico, Serbia, Turnio, Brant, Colombia, Tharland, Bulgana
424	Brazil Golombia	Serbio, Turnio, Romania, Colombio, Thailand, Bulgaria
420	Theirod	Serbiu, Turisus, Romenta, Brozil, Thisland, Bulgiesa, Trinkfad and Tobego Tunisio, Romania, Brozil, Colombia, Bulgiana
417	Bulgana	Serbis, Turnia, Romania, Brazil, Colombia, Whirland, Trinidad and Tobago, Indonesia, Jordan, Angentina
413	Trimidad and Tobago	Colombia, Bulgaria, Indonesia, Josain
409	Indonesia	Bulgaria, Trinidad and Tohago, Jordan, Argontina
407	Jordan	Bulgaria, Trinidad and Tobago, Indonesia, Argentina
402	Argentina	Bulgaria, Indonesia, Joedan
383	Montenegro	Pinana, Albana
377	Panama	Montenegro, Allianea, Quiar, Kazakhelan, Penu
376	Albania	Montenagro, Panamu, Qutar, Kazakihstan, Penu
	Quiter	Parama, Albania, Kazaldhare, Rena
		Panama, Albania, Gabe, Peru
373	Kazakhstan	
376 373 368	Peru	Panama, Albania, Qatar, Kazakhitan
373		

Source OECD, MSA 2009 Database Stations with http://dx.doi.org/10.1787/88893224333



■ Figure 1.2.28 ■

Comparing countries on the different aspect subscales

Country performance on the subscale is between 0 to 3 score points higher than on the combined reading scale Country performance on the subscale is between 3 to 10 score points higher than on the combined roading scale Country performance on the subscale is 10 or more score points higher than on the combined reading scale Country performance on the subscale is between 0 to 3 score points lower than on the combined reading scale Country performance on the subscale is between 3 to 10 score points lower than on the combined reading scale Country performance on the subscale is 10 or more score points lower than on the combined reading scale

		Performance difference between the combined reading scale and each aspect subscale			
	Reading score	Access and retrieve	Integrate and interpret	Reflect and evaluate	
thanghar-China	558	7	2	1	
Korea Dokod	539	2	1 2	3	
	536	4	2	6	
long Kong-China	533 526				
Singapore Canada	526 524	-8	-1 -2	3	
Canada New Zeeland	524 521	-0	-2	30	
Japan	520	10	-	30	
Japan Australia	515	10	-2		
Netherlands	508	-2	4	2	
	508 506	7	- 2	-1	
Belgium	50b 50k	9	-2	-1	
Norway	501	2		2	
Switzerland	501		-1		
Poland	500	0	2		
celand	500	-	2	-3	
cessing Janted States	500	- 4	-5-	-	
				- 12	
se chtenstein Pweden	499 497	8 7	- 2	-2	
	497		-3		
e many		1	30	-6	
reland	496	2	-2	-7/	
rance	496	4	2	0	
Chinese Tarper	495	1	4.00	-2	
Denmark	495	7	-3	-2	
Justed Kingdom	494	-3	4	9	
lungary	494	7	2	-5	
Portugal	489	-1	-3	7	
Maczo-China	487		2	-6	
taly	486	4	4		
atvia	484	-0	0	8	
Hovema	183	- 4		:19.	
Greece	483	318	2	2	
ipain	481	-1	0	2	
Czech Republic	478		3		
lovak Republic	477			-12	
Croatia	476	16		-5	
srael .	474	41-	-1	9	
gruodmsau,	472	-2	3	-2	
Lustria	470	7	1	7	
ithuama	450			- 5	
Turksy	454	3-3-0		- 0	
Dubas (UAE)	459	-1	-3	- 6	
Russian Federation	459	9	The second second	-111	
Chale	449	5	3	3	
sertna	442	7	3	-17	
Sulgana	429	0	Ty Tr	-12	
Jrugusy	425	-1	-3	10	
Mexico	425	7-	7		
Romania	424	-2	0	2	
Dorland	421	10	-	-1	
Inmided and Tobago	416	- 13	2	3	
Tolombia	413		-2	3	
Stanl	412	-4- 1		12	
Montenegro	408		13		
Aontenegro ordan	405	-11	- "	7	
unsa	404		-+0	28	
unsa ndonesia	101	-3	-10	23	
	402 398	4	-1	4	
irgentina Jarakhatan	398	7	-1	- 16	
Caracterian					
Ubania	385		Mineral Branch	-9	
Qatar	372	-18	7. 7.		
Panama	371	. 7	1-	- 6	
Veru	370	-6	2	-2	
Azerbogan	362	0			
Cyrgyzstan	314	All	10	374	

Source OECD, PISA 2009 Database, Tables 12 3, 12 6, 12 8 and 12 12 Start fink Number http://dx.doi.org/10.1787/808932343133



The relative strengths and weaknesses of countries in different aspects of reading

Figure 1.2.28 shows the mean performance of each participating country on the overall reading scale and compares it with its mean performance on the access and retrieve, integrate and interpret and reflect and evaluate subscales, showing the difference in points between the overall scale and each of the assert subscales.

Some OECD countries performed consistently across the aspect subscales, with no more than three score points separating the mean proficiencies across the three aspects. These countries were Estonia, Korea, Luxembourg, Poland and Spain. More typically, however, there was some variation in performance across the aspect subscales.

Some countries performed significantly lower on the reflect and evaluate subscales – by at least 10 points – than on one or more of the other two aspect subscales. In this group are the OECD countries the Carch Republic, Slovenia, the Estwak Republic, and the partner countries Archaign, Montenegon, the Requisal refeated in Kazabstan, Kergyezkan, Sorbia and Bulgaria. Students in these countries appear to be less accustomed to critically evaluating and reflecting upon what they recad, and more accustomed to using tests to find an abayles information.

Convenely, distinguishable groups of countries performed better on the reflect and evaluate aspect than on one or both of the other aspects. Apart from Iteland, all English-speaking countries (Australia, Canada, New Zealand, the United Kingdom and the United States) have a mean score at least 10 points higher on the reflect and evaluate subscale than on one or both of the other schedes. The same is true of 1 long Kong China. Another distinguishable group with this profile comprises several of the Latin American paramer countries. Exact, Colombia, Pannan and Uniguay. The remaining Latin American countries - the CECD countries Chile and Mexico, and the partner country Argentian - also performed comparatively well on the reflect and evaluate valuaced. Students in these countries demonstrate strength in expressing views about texts and discerning their structure and purpose, but a comparative deficit in attentive and accurate information-focused reading.

In addition to comparing mean scores for each of the aspects, another way of looking at countries' relative strength or weakness in aspects of reading is by examining their rank in each aspect. The range of ranks for each country in each aspect is listed in Figure 12.29.

Gender disparities in the different aspects of reading

Figures 1.2.30a, 1.2.30b and 1.2.30c show the distribution of student performance on each aspect subscale for each country, marked with the mean performance of girls and boys.

While girls outperformed boys in every aspect of reading as well as on the overall reading scale, there are some variations across the aspect subscales. The smallest variation between girls and boys is on the integrate and interpret subscale (26 points) and the largest on the reflect and evaluate subscale (44 points). This relative disparity is reflected in every part of the distribution of performance on the aspect subscales.

For example, on the integrate and interpret subscale, 2% or more of gifts in eight OCEO countries and three partner countries and economies performed at Level 6, with the highest percentage of 4.2% in Shanghaic Chian, New Zealand, and Singapone. On the same aspect subscale, the only countries in which more than 2% of boys performed at level 6 are the OCEO countries New Zealand and Austalia bond 2.1% and the partner country Singapore (2.8%). These figures can be compared with the partallel results on the reflect and evaluate subscale, where the picture is similar but more pronounced. On the reflect and evaluate subscale, over 2% of gifs in the OECO countries and three partner countries and exonomies statuted proficesory Level 6, with New Zealand yielding (3.4% at this level. Only in the OECO countries New Zealand, Japan and Australia, and in the partner country Singapore did more than 2% of boy achieve evel 6 on the reflect and evaluate subscale.

At the other end of the performance spectrum, the ratio between gifts' and toos: performance was similar across the time aspect subscales: roughly half as many gifts as bops performed below Level 2 on each of the aspect subscales across OCCO countries. On the access and retrieves subscale, 13:3% of gifts and 25:6% of boys performed below Level 2; on the integrete and interpret subscale, 13:4% of gifts and 25:5% of boys; on the reflect and evaluate subscale, 12:6% of gifts and 25:5% o



■ Figure I.2.29 [Fart 1/3] ■ Where countries rank in different aspects of reading performance

Statistically significantly above the OECD average

Not statistically significantly different from the CECD average Solistically significantly below the CECD average

	Access and retrieve subscale								
				Rang	y of rank				
				countries		es/economies			
Shanghar-China	Mean Score	S.E. (2.9)	Upper rank	Lower rank	Upper rank	Lower rank			
Snangnar-Crima Konra	542	(3.6)	1	1	1	2			
Rosea Finland	532	(2.7)	2	3	3	5			
apan	530	(3.8)	2	4	3	7			
tong Kong-China	530	(2.7)	-		1	6			
Sengapore	526	(1.4)				7			
New Zealand	521	(2.4)		6	6	9			
Netherlands	512	(5.1)	3	2	5	12			
Canada	517	(1.5)	5	8	8	11			
Belgium	513	(2.4)	5	9	8	13			
Australia.	513	(2.4)	5	9	8	13			
Norway	512	(2.8)	6	11	9	14			
Liechtenstein	508	(4.0)			10	20			
celand	507	(1.6)	9	13	12	17			
iwsteerland	505	(2.7)	9	16	12	20			
iweden	505	(2.9)	9	16	13	21			
stonia	503	(3.0)	10	18	13	22			
Denmark	502	(2.4)	- 11	18	14	22			
tungary	301	07)	10	19.		23			
Sermany	501		ol -		14	24			
oland	500	(2.8)	72		16	24			
reland	498	(3.3)	12	361	16	26			
Chinese Taiper	496	(2.8)			19	28			
Macao-China	493	(1.2)			23	28			
Anited States	492	(7.4)	17	24	22	31			
TARCE	492	(3.6)		24	21	31			
roalta	492	(3.1)			22				
Inited Kingdom	491		19		23				
ilovak Republic	491	(3.0)	19	24	23	31			
ilovenia	489	(1.1)	20	24	27	31			
*ortugal	485	(2.2)	19	25	24	32			
taly	482	(1.0)	24	27	31	35			
pan	480	(2.1)	25	28	32	36			
Czech Republic	479	(3.2)	25	29	32	37			
Austna	477	(3.2)	25	29	32	38			
Lithuama	476	(3.0)			32	38			
Latera	476	(3.4)			32	39			
Luxenbourg	471	(1-3)	29	31	37	40			
Russan Federation	469	(3.9)			37	42			
Stence	465	(4.4)	29	32	36	42			
luckey	467	(4.1)	29	32	37	42			
israel	463	(4.1)	30	32	39	43			
Dobas (UAE)	458	(1.4)			42	43			
Serbia	449	(3.1)			44	45			
Thile	444	(3.4)	_33	33	44	46			
Mesico	433	(2.1)	34	34	46	48			
Thailand	431				46	49			
Bulgana	430	(8-3)			45	50			
Jeograp	424	(2.9)			48	50			
Romania	423	(4.7)			47	50			
Innidad and Tobago	413	(1-6)			50	52			
Montenageo	408	(2.3)			52				
iraal	407	(3.3)			52	55 56			
Colombia		(3-7)			52				
ndonesa	399	(4.7)			53	59			
azakhstan	397	(3.7)			54	59 59			
irgentina		(4.8)							
ordan	394	(4.0)			55	59			
Tursess	393	(2.2)			55	59			
Mania.	380	(4.7)			60	61			
Porti	364	(43)			61	63			
ranama.	363	(7.7)			61	64			
tzerbajan	361	(4.5)			61	64			
Qutar	354	(1.0)			63	64			
Kyrgyzstan	299	(4.0)			6.5	65			

Source: OFCD, PSA 2009 Database Statistic agos http://dx.doi.org/10.1787/188932343133



■ Figure I.2.29 [Fait 2/5] ■ Where countries rank in different aspects of reading performance

Solistically significantly above the OECD average Not statistically significantly different from the OECD average Solistically significantly below the OECD average

	501	setically sig	nificantly below the OECD ave	roge				
			Inta	grate and interpret	subscale			
	Mean Score S.E.				of rank	All countries/economies		
			Upper rank	Lower mak	Upper rank	Lower rank		
Shanghar-China	558	(2.5)	Copper rank	LOWER THER	Upper rank	LOWER FILIK		
Comma	541	(3.4)	1	2	2	1		
inland	536	(2-3)	1	2	2	1		
long Kong-China	530	(2.2)			- 4	- 4		
langapore	525	(1.2)			5	6		
anada .	522	(1.5)	3	4	5	7		
apan	520	(3.5)	3	6	5	9		
New Zealand	517	(2.4)	4	6	7	9		
ustraka	513	(2.4)	5	7	8	10		
Netherlands	504	(5.4)	6	17	9	22		
selgrum	504	(2.5)	7	14	10	17		
oland	503	(2.8)	7	15	10	19		
celand	503		7	13	10	17		
ionway	502	(2.7)	7	15	10	19		
wsteerland	502	(2.5)	7		10	19		
Sermany	501	(2.8)	7	16	10	21		
stonsa	500	(2.8)	8		11	22		
Clunese Taiper	492		-		12	23		
iechtenstein	498	(4.0)			10	25		
rance	497	(3.6)	Y Y		12	26		
tungary	496	(3.2)	71		14			
Inited States	495		12	- 14	13	30		
weden	494	(3.0)	13		17	29		
reland	494	(3.0)	14	24	17	29		
Denmark	492	(2.1)	16	23	20	29		
Anted Kungdom	491	(2.4)	17	25	22	32		
tely	490	(1.4)	19	25	24	31		
lovenia	489	(1.1)	21	25	25	31		
viacao-China	488	(0.8)			26	31		
Zech Republic	488	(2.9)	19		24	34		
Tortugal	487	(1.0)	20	27	25	34		
atvia.	484	(2.8)			28	35		
Senece	484	(4.0)	21	29	25	35		
lovak Republic	481	(2.5)	25	28	32	36		
pan	481	(2.0)	26	28	32	35		
uxembourg	475	(1-1)	29	31	36	38		
seacl	473	(3.4)	28	31	36	41		
Iroatra	472	(2.9)			36	41		
Nustria	471	(2.9)	29	31	36	41		
athuma	46/2	(2.4)			38	-41		
Russian Federation	467	(3.1)			38	42		
lurkey	459		32	33	41	43		
Dubas (UAE)	457	(1.3)			42	44		
thile	452	(3.1)	32	33	43	45		
iertra	445	(2.4)			45	46		
olgania	436	(6.4)			45	47		
lomania	425	(4.0)			46	50		
Arugusy	423	(2-6)			47			
Aontenegro	420	(1.6)			47	51		
inredad and Tobago	419	(1.4)			48	52		
Azesco	418	(2-0)	34	34	48			
halund	416	(2.6)			49			
olombia	411	(3.6)			51	35		
ordan	410	(3-1)			52			
razil	406	(2.7)			53	56		
rgentina	398	(4.7)			55	60		
ndonesia	397				56	60		
azakhstan	397	(3.0)			56	60		
binness.	393	(2.7)			57	60		
drama.	393	(3-8)			56	60		
Ostar	379	(0.9)			61	62		
zerbaijan	373	(2.0)			62	64		
Panama	372	(5.9)			61	61		
Norti	371	(4.0)			62	64		
Cyrgyzstan	327	(2.0)			65	65		

Source OFCD, PISA 2009 Database Statistics 4509 https://dx.doi.org/10.1707/100252243133



■ Figure I.2.29 [Fart 3/3] ■ Where countries rank in different aspects of reading performance

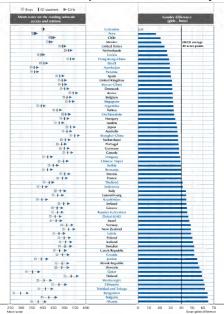
Statistically significantly above the OECD average Not statistically significantly different from the CECD average Statistically significantly below the CECD average

	Reflect and evaluate subscale								
			Range of rank						
			OECD	countries	All countrie	s/economies			
	Mean Score	S.E.	Upper rank	Lower rank	Upper rank	Lower rank			
Shanghar-China	557	(2.4)			1				
Koera	542	(3.9)	1	2	2	4			
Hong Kong-China	540	(2.5)			2	4			
Finland	536	(2.2)	1	4	3	6			
Canada	535	(1.6)	2	4	3	6			
New Zealand	531	(2.5)	3	5	4	7			
Singapore	529	(1.1)			6	7			
Australia	523	(2.5)	3	6	8	9			
apan	521	(3.9)	5	7	8	10			
inited States	512	(4.0)	6	10	9	13			
vetherlands	510	(5.0)	6	13	9	16			
Belgium		(2.5)		14	11				
Norway	505	(2.7)	8		11	17			
Juited Kingdom	503	(2.4)	9	16	12	19			
vionu	503	(2.4)	9	16	- 11	19			
reland	502	(3.1)	8	16	11	20			
iweden	502	(3.0)	9	17	11	20			
roland	498	(2.8)	12	20	15	26			
aechtenstein	498	(3.2)			14	26			
besirostewi	497	(2.7)	75	31	16	26			
Portugal	490	(3.3)	13		15				
celand	496		15	20	18	25			
rance	495	(3.4)	14		17	29			
Denmark	493	(2.6)	16		20	29			
hnese Taiper	493	(2.0)			20	29			
ahva sivis	492	3.01			20	29			
Sermany	491	(2.8)	18	24	22	30			
Greece	489	(4.9)	16	26	20	33			
Hungary	489	(3.3)	19	25	23	31			
ipan	483	(2.2)	23	26	29	33			
seacl	483	(4.0)	22	27	28	34			
taly	482	(1.8)	24	26	30	33			
Macao-Chena	481	(0.9)			31	33			
Turkey	423	(4.G)	26	30	33	39			
rooba	471	(3.5)			34	40			
Lucembourg	471	(1-1)	27	29	34	37			
Slovenia	470	(1.2)	27	30	34	37			
Slovak Republic	466	(2.9)	28	32	36	42			
Dubar (UA1)	466	(1-1)			37	41			
athuma	463	(2.5)			38	42			
Vustna	463	(3.4)	30	32	37	42			
Zech Republic	462	(3-1)	30	32	38	42			
Chile	452	(3.2)	33	33	43	43			
Russian Federation	441	(3.7)			44	45			
Jrogosy	436	(2.9)			44	47			
Versico	432	(1.9)	34	34	45	48			
iertia	430	(2.6)	-		45	49			
Timesa	427	(3.0)			46	51			
iomania iomania	426	(4.5)			46	51			
oomana leed	424	(2.7)			46	53			
Colombia	422	(4-2)			48	54			
haland	420	(2.8)			49	53			
lukana	417	(7.1)			45	57			
ingana inn dad and Tobago	417	(1-3)			90 53	55			
nnidad and lotago ndonesia	409	(1-3)			53	57			
ndonesa ordan	407	(3.8)			54	57			
	407				54	57			
Argentina Viontenegro	383	(4-8)			55	57			
Viantenegro Panama	383	(0.3)			56 56	63			
	377				58 58				
Mania		(4.6)				63			
Qutar	376	(1.0)			59	62			
Cazakhstan	373	(3.4)			59	63			
Peru .	368	(4-2)			61	63			
Azerbaijan	335	(3.8)			64	64			
Kyrgyzstan	300	(4.0)			65	65			

Source: OFCD, PSA 2009 Database Statistic agos http://dx.doi.org/10.1787/188932343133

2

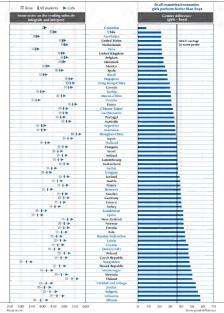
■ Figure I. 2.30a Gender differences in the ability to access and retrieve information from reading



Note: Statistically significant gender differences are marked in a darker tone (see Annex A3). Countries are ranked in ascending order of the gender score point difference (girls - boys).

Source: OECD, PISA 2009 Database, Table L2.6 Stati/nk #25 http://dx.doc.org/10.1787/888932343133

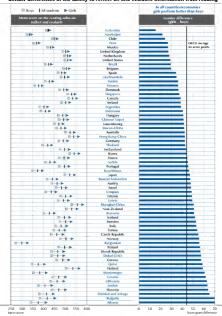
■ Figure I. 2.30b ■ Gender differences in the ability to integrate and interpret information from reading



Note: All gender differences are statistically significant (see Annex A3). Countries are ranked in ascending order of the gender score point difference (girls - boys) Source: OECD, PISA 2009 Database, Table 1.2 9. Station (1000 http://dx.doi.org/10.1787/888932343133

2

■ Figure I. 2.30c ■ Gender differences in the ability to reflect on and evaluate information from reading



Note: All gender differences are statistically significant (see Annex A3). Countries are ranked in ascending order of the gender score point difference (girls - boys). Source: OECD, PISA 2009 Database, Table 12.12 StatLink @pp http://dx.doi.org/10.1787/888932343133



Taxt format subscales

The reading framework identifies four text formats, continuous, non-continuous, mixed and multiple. Two of these are used as the basis for building text-format subscales: continuous texts and non-continuous texts.

A little under two-thirds of the questions are classified as continuous. These are questions based on stimulus in proceeding complete sentences and paragraphs, or on the prose section of tests in a format comprising a mix of continuous and non-continuous parts. A little under one-third of the questions in 1984, 2009 are classified as non-continuous and non-continuous based on situalism is non-continuous. These are questions based on situalism is non-continuous man, such as tables, gapphs, maps, forms and diagrams, or on the non-continuous section of a lest with a mixed format. These prevent of questions require the reader to draw equality on continuous and non-continuous parts of a mixed format Test. These questions have not been included in either the continuous or non-continuous parts of a mixed format test. These questions have not been included in either the continuous for non-continuous parts of a mixed stimular in parts. Only, that if these cases the tests comprising each set of stimula and lin continuous format, so the 5% of questions classified as mulpiple texts, where the mader is required to draw on more than one lest, are included in the construction of the continuous bests subscale.

Student performance on the reading subscale continuous texts

With 65% of questions from the PISA 2009 pool of reading tasks contributing to the continuous texts subscale, a wide variety of tasks and text characteristics must be accounted for in describing increasing levels of proficiency.

■ Figure I.2.31 ■

Summary descriptions of the seven proficiency levels on the reading subscale continuous texts

Level	Percentage of students able to perform tasks at each level or above (OECD average)	Characteristics of tasks	Examples of released continuous texts questions
6	1.0% of students across the OECD can perform tasks at Level 6	Negotiate single or multiple texts that may be long, dense or deal with highly abstract and implicit meanings. Relate information in texts to multiple, complex or counterntuitive ideas.	THE PLAY'S THE THING — Question 3 (730)
	8.2% of students across the OECD can perform tasks at least at Level 5	Negotiate texts whose discourse structure is not obvious or clearly marked, in order to discern the relationship of specific parts of the text to the implicit theme or intention.	
	28.8% of students across the OECD can perform tasks at least at Level 4	Follow linguistic or thematic links over several paragraphs, often in the absence of clear discourse markers, in order to locate, interpret or evaluate embedded information.	THE PLAY'S THE THING — Question 7 (556)
3	57.2% of students across the OECD can perform tasks at least at Level 3	Use conventions of text organisation, where present, and follow implicit or explicit logical links such as cause and effect relationships across sentences or paragraphs in order to locate, interpret or evaluate information.	MISBR – Question 3 (548) TRECOMMUTING – Question 1 (537) TRECOMMUTING – Question 7 (514)
2	80.9% of students across the OECD can perform tasks at least at Level 2	follow logical and linguistic connections within a paragraph in order to locate or interpret information; or synthesise information across texts or parts of a text in order to infer the author's purpose.	THE PLAY'S THE THING — Question 4 (474) BLOOD DONATION NOTICE Question 8 (438)
1 a	94.1% of students across the OECD can perform tasks at least at Level 1a	Use redunders, y passing sigh housings or common print conventions to identify the man idea of the text, or to locate information stated explicitly within a short section of text.	BRUSHING YOUR TEETH — Question 4 (399) MISSR — Question 1 (373) BIOOD DONATION NOTICE— Question 9 (368) BRUSHING YOUR TEETH — Question 2 (358) BRUSHING YOUR TEETH — Question 1 (353)
1b	98.7% of students across the OECD can perform tasks at least at Level 1b	Recognise information in short, syntactically simple texts that have a familiar context and text type, and include ideas that are reinforced by pictures or by repeated verbal cues.	MISER – Question 7 (310) BRUSHING YOUR TEETH – Question 3 (285)



At the lowest levels, tasks are based on short, simple texts in a familiar form, with verbal repetition and/or non-verbal support such as a picture. As tasks become more difficult, the syntactic structure of the associated texts increases in complexity the connet becomes less familiar and more abstract, and the reader is required to focus on ever larger sections of the text or on more widely scattered information. At the upper levels, tasks require the market to extract and process information from long or dense texts in an unfamiliar format, where there are few, if any, explicit markers as to the location of the needed information, and the reader is required to construct meaning from what is intuited rather than stade.

Figure 12.31 provides descriptions of the nature of the reading skills, knowledge and understanding required at each level of the scale for the continuous tests aspect of reading, with the percentage of students across OECD countries who perform at this level in PISX 2009. The right-hand column lists examples of released continuous texts questions. Figures 12.40 to 12.46 describe these questions and provide commentary on what they show.

Figure 1.2.32 shows the percentage of students at each proficiency level on the continuous texts subscale. Details of performance by gender on this subscale are also provided in Table 1.2.15.

With such a large percentage of the questions contributing to the continuous texts subscale, it is not surprising that the profiled of performance by reading level is very similar to hat for the overall reading scale the difference at each level, on average, is less than 0.5 of a percentage goalst. Figure 12.32 shows that across countries, there is a relatively small percentage of subsets who are proficient at the very highest beset of performance for OFCEO countries, on average, 7.2% and 1% at Levels 5 and 6, respectively). Nevertheless, more than 15% of suderist attains one of these beets in the OFCEO country level Zead and (15 yet) and the partner countries and exconnels Stanghai-China (23.7%), Hong Kong-China (15.4%) and Singapore (15.2%). At the other end of the spectrum, on average across OFCEO countries, almost 15% of students perform below Level 2, and the figure is greater than 50% in the indicates that in these countries the reason of CEO countries of the connel of the partner countries (see countries). The partner countries where the countries of the employ of 15+quest-ofds are Biels (b) for this difficult to use continuous texts that the other are the star are short and clearly sign-posted; and even with such texts, they are unlikely to be able to do more than identify a main idea or find explicitly stated information.

Figure 12.33 shows each country's mean score on the continuous tests subscale, and shows for which pairs of countries the differences between the means shown are statistically significant. For each country shown on the left in the middle column, the list of countries on the right hand column shows countries whose mean scores are not sufficiently different to be distinguished with confidence. For all other cases, one country has a higher performance than another if it is above it in the list in the middle column, and a lower performance if it is below.

Table 1.2.16 presents the mean score, variation and gender difference for each country on the continuous tests ubscale. Girls outperformed boys in every country on the continuous tests ubscale, indeed the gap is even lightly wider than on the overall restaling scale (12 compared with 39), in 51 countries, the gap is more than half of one proficiency level (more than 56 points). The biggest gap is between boys and girls in the partner country/Albania (67 points) while, as in the overall scale and the aspect subscales, the partner country Colombia has the smallest gender gap, with only 14 points separating boys and girls.

Student performance on the reading subscale non-continuous texts

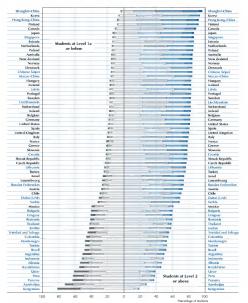
Traditionally, reading has been associated mainly with continuous texts. In many school systems, especially in language-of-instruction classes, reading is pipi-ally confined to literature and exposition prote. In other parts of the curriculum, however, proficiency in understanding and using non-continuous texts is at lesst equally important for example, students need to be able to road and interpret maps and tables in the social sciences, and disgams and graphs in the sciences. In adult life, a large part of everyday reading involves non-continuous texts, such as tax forms, timeables, gapheder quotro for household energy consumption, and lists of salety instructions in the workplace. Given the prevalence of non-continuous sexts, a substantial proportion of tasks in the PISA 2009 pool of conding tasks—navely 10%—are declined to associating underly proficiency in reading those known of texts.

All non-continuous texts can be analysed as comprising one or more list, the easiest tasks on this subscale are based on a single, estigate list and registeries the reader to science on a single estigate and prominently placed price of information. Increasing difficulty on the scale is associated with tasks based on texts with more complex list structures, such a confiberol list, and those with less familiar forms of presentation. In addition, more difficult tasks require readers to integrate information from multiple parts of a document or even to translate information presented in different non-continuous formats, thus implicitly involving a deep undestrateding of the structures of several texts.



■ Figure I. 2.32 ■

How well do students read continuous texts? Percentage of students at the different levels of proficiency in reading continuous texts



Countries are ranked in descending order of the percentage of students at Levels 2, 3, 4, 5 and 6. Source: OECD, PISA 2009 Database, Table 1.2 14.

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■ Figure I.2.33 ■ Comparing countries' performance in reading continuous texts

Statistically significantly above the OECD average Not statistically confirmed will fewer from the OFCD memory Statistically agnificantly below the OECD average Countries whose mean score is NOT stallsdically significantly different from that of the comparison country Shanghai-China 535 Korea Hong Kong-Chino, Finland Finland Canada Singaporo, Japan Canacla, Japan, New Zinland Canada, Singaporo, New Zinland, Australia Jipin New Zeola Singapore, Japan, Australia Austraka Australia, Norway, Belgium, Poland, Ioeland, United States, Swoden, Switzerland, Estoria, Hungary, Indand, Chrisse Topis, Dermark, Con Netherlands, Belgium, Poland, Ioeland, United States, Swoden Netherlands, Belgium, Poland, Lorland, United States, Sweden
Notherlands, Norway, Poland, Icaland, United States, Sweden, Switzerland, Estonia, Humany, Iroland Belgum Poland edand, Estonio, Hungary, Indand, Chinese Toipei, Denmark, Gen Liechtenstein Iceland redand, Estonia, Hungary, Ireland, Chinese Tasper, Denmark, G Construction, saveny, higher whealt, colone, trainer, was constructed, and controlled, Canada United States only Humany Indaed Chinese Turni Deemork Cormon ary, Iroland, Chrose Tapes, Denmark, Germany, Lie erland, Hungary, Iroland, Chinese Tarpes, Denmark, Germ Hungary Ireland Chinese Tarpe Notherlands, Poland, Iceland, United States ngary, Ireland, Chinese Taiges, Denmark, Cermany, France, Portugal, Unit Portugal United Kingdom Macao-Chrna Convenience in the Control Register, United the September of the Control Register of the Control Regis Cresco, Spans, Luhva, Shook Republic, Ceech Republic, Armil France, Portagal, Italy Maccio-China, Grosco, Spans, Slovenia, Slovak Republic, Ceech Republic Cresco, Spain, Sloveria, Luhva, Steck Republic, Crustia, Israel Cresco, Spain, Sloveria, Luhva, Shook Republic, Crustia, Israel Slovensa Slovak Republic Crocor, Spain, Libras, Sinok Republic, Carch Republic, Irani, Austria Crocor, Spain, Slovenia, Libras, Sinok Republic, Carch Republic, Crock Republic, Crocks, Lusemb Book, Urbuana, Austra, Tarkey 471 Lucembou 470 Luthuanus hoel, Luxembourg, Austria, Turkey Croatla, Israel, Luxembourg, Lithuania, Turkey Austra 466 Turkey 461 Dubar (LMZ) 461 Russan Fede Buskey, Dubai (UAE), Chili Russian Foderation 453 Chile Bulgaria Serbia, Uruguay, Mesoco, Romania, Thailand Bulgaria, Mesoco, Romania, Thailand Bulgana, Unigury, Romania, Thailand Bulgana, Unigury, Mosen, Thailand, Trinidad and Tobago, Jordan, Colombia, Bizzil Suigana, Uruguay, Mexico, Romana, Trandad and Tobago, Jordan, Colombia Romania, Thatland, Jordan, Colombia, Brazil Romania, Thalland, Trandad and Tobago, Colombia, Buzil, Montenageo 417 Jordan 415 Colombia Romania, Thurland, Translad and Tobago, Joedan, Board, Montenegro, Tunisia, Indonesi Colombia, Brazil, Montreago, Indonesia, Agentina Colombia, Brazil, Montreago, Tunsa, Agentina, Kazalibsta Barress, Indonesia, Kazakhelan, Albana Indonesia, Argentina, Albania Argentino, Kazokhstan Kazaldistan, Peru

urce OECD, PISA 2009 Database 5tatifnk %: P http://dx.doi.org/10.1787/888932343133



Figure 1.234 provides descriptions of the nature of the reading skills, knowledge and understanding required at each level of the scale for the non-continuous tests aspect of reading, with the percentage of sudents across Octoor countries who performed at this level in PISA 2009. The right-hand column list scamples of released non-continuous test ousselves. Figures 12.40 to 1.246 describe these usestions and provide commentary on what they show.

= Figure 1.2.34 = Summary descriptions of the seven proficiency levels on the reading subscale non-continuous texts

Level	Percentage of students able to perform tasks at each level or above (OECD average)	Characteristics of tasks	Examples of released non-continuous texts questions
6	1.0% of students across the OECD can perform tasks at least at Level 6	identify and combine information from different parts of a complex document that has unfamiliar content, sometimes drawing on features that are external to the display, such as footnotes, labels and other organisers. Demonstrate a full understanding of the text structure and its implications.	
	8.0% of students across the OECD can perform tasks at least at Level 5	Identify patterns among many pieces of information presented in a display that may be long and detailed, sometimes by referring to information that is in an unexpected place in the text or outside the text.	
	28.5% of students across the OECD can perform tasks at least at Level 4	Scan a long, detailed text in order to find relevant information, often with little or no assistance from organises such as labels or special formatting, to locate several pieces of information to be compared or combined.	MOBILE PHONE SAFETY – Question 11 (604) BALLOON – Question 3.2 (595) MOBILE PHONE SAFETY – Question 2 (561)
3	57.3% of students across the OECD can perform tasks at least at Level 3	Consider one display in the light of a second, separate document or display, possibly in a different format, or draw conclusions by combining several pieces of graphical, verbal and numeric information.	MOBILE PHONE SAFETY— Question 6 (526) BALLOON—Question 4 (510) BALLOON—Question 3.1 (449) MOBILE PHONE SAFETY— Question 9 (488)
2	80.9% of students across the OECD can perform tasks at least at Level 2	Demonstrate a grasp of the underlying structure of a visual display such as a simple tree diagram or table, or combine two pieces of information from a graph or table.	BALLOON - Question 6 (411)
1 a	93.7% of student across the OECD can perform tasks at least at Level 1a	Focus on discrete pieces of information, usually within a single display such as a simple map, a line graph or bar graph that presents only a small amount of information in a straightforward way, and in which most of the verbal text is limited to a small number of words or phrases.	BALLOON – Question 8 (370)
1b	98.5% of student across the OECD can perform tasks at least at Level 1b	Identify information in a short test with a simple list structure and a familiar format.	

Figure 1.2.35 shows the percentage of students at each proficiency level on the non-continuous texts subscale. Details of performance by gender on this subscale are also provided in Table 1.2.18.

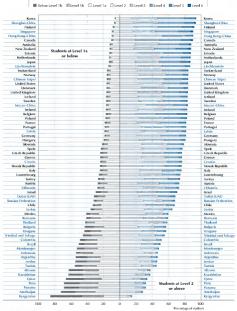
Mean performance across OCCD countries is the same on the non-continuous test subscale as on the overall reading scale (98) points, but is slighty most depensed a standard deviation of 5° compared with 5°), for almost half of the participating countries, including most OCCD countries, the modal level is Level 3. The exceptions are in the OCCD countries finland, for search performance are in the OCCD countries in the participating countries finland, for which have a modal level of Level 4, as well as in the participation of the p

■ Figure I. 2.35 ■

- rigdle t. 2.33 -

How well do students read non-continuous texts?

Percentage of students at the different levels of proficiency in reading non-continuous texts



Countries are ranked in descending order of the percentage of students at Levels 2, 3, 4, 5 and 6. Source; OECD, PSA 2009 Database, Table 12.17. SREALINE #409* http://dx.occ.org/10.109/98893393133

QZ



■ Figure | 2.36 ■

Comparing countries' performance in reading non-continuous texts

Statistically confirmed value the DECD average Not statistically significantly different from the OECD average

Statistically significantly below the OECD average Countries whose mean score is NOI statistically significantly different from that of the comparison country 542 Korea 539 Shangi Shanghas-Chroa, Sangapore, Finland Shanghai-China Korea, Singapore, Finland Singapore Korea, Shanghai-China, Finland finland Korea, Shanghas-China, Singapore, New Zealand New Zealand Canada New Zroland, Australia, Hong Kong-China Hong Kong-Chro Canada, Australia, Japan, Netherlands Japan Australia, Hong Kong-China, Netherlands, Estonia, Belgium Netherlands Austolia, Hong Kong-China, Japan, Estoria, Belgium, Liechtenstein, United Kingdom, Switzerland, United States Estonia Japan, Neiherlands, Belgram, Liechtenstein, Unsted Kingdom, Switzerland Bekjum Japan, Notherlands, Estoria, Liechtenstein, United Kingdom, Switzerland, United States Netherlands, Estonia, Belgium, United Kingdom, Switzerland, United States, Chinese Taipes, Fiance, Sweden Netherlands, Estonia, Belgium, Liechtenstein, Switzerland, United States, Chinese Taiper, France United Kingdom Switzerland Netherlands, Estonia, Belgium, Liechtenstein, United Kingdom, United States, Chanese Taiper, France, Sweden United States Notherlands, Belglum, Luchamston, Linted Kingdom, Switzerland, Chinese Tarper, Icoland, Franco, Swoden, Norway, Germany Iroland, Polane Chinese Taipe Litechtensoon, United Kingdom, Switzerland, United States, Josland, France, Sweden, Norway, Germany, Indand, Poland torland 499 terland 498 france Lochtenbarr, Linted Krigdem, Switzerland, United States, Chrone Tapes, Iceland, Swinder, Norway, Germany, Ireland, Poland, Dennark Sweden United States, Chrone Topes, Icoland, France, Sweden, Norway, Ireland, Poland, Derr Hungary Poland, Denmark, Portugal, Lahsa, Macao-China Hungary, Latvia, Czech Republic ttaly Sloversa Italy, Czech Republic, Spain, Austria, Greece, Croatia, Slovak Republic Macao-China, Italy, Slovenia, Spain, Austria, Greece, Citratia, Luxembourg, Slovak Republic, Israe Czech Republic Span Italy, Slovenae, Czech Ropubbe, Spain, Croece, Croatra, Lanumbourg, Sloveic Repubbe, Iurael Catch Republic, Spain, Austria, Greece, Creatia, Slovak Republic, Isra Slovak Republi Italy, Slovenar, Creech Republic, Spain, Austria, Greece, Create, Lusembourg, Incerl Hang, Stevense, Lanco Republic, Spain, Ageltos, Coreco, Cicolia, Lawrenbourg, Seculi Carch Republic, Spain, Austria, Greco, Cicolia, Lawrenbourg, Slovak Republic, Utharris, Tarkov, Dubor (UNE) Israel

Turkey Israel, Lithuania, Turkey, Russian Federation 444 Chile Mexico Romano, Thailand, Bulgaria, Linguay Messco, Thailand, Bulgana, Uruguay, Translad and Tobago

Mexico, Romania, Bulgaria, Uruguay Bulgana Mexico, Romania, Thailand, Uraguay, Trinidad and Tobago, Colombia, Brazil Mexico, Romania, Tharland, Bulgona, Trimdad and Tobag Romania, Bulgaria, Uruguay, Colombia Bulgoria, Traveled and Tobago, Brazel, Indone Indonesia, Turinia, Argentina

Colombia, Beazil, Montenegro, Tunnas, Argentesa, Jordan

Greece, Israel, Turkey, Dubas (UVE)

Indonesia, Montenegro, Argentina, Jordan Indonesa, Montenegro, Turasa, Jordan Kazakhstan Albania, Panama

Source: CECD, PISA 2009 Distribuse

Station and http://dx.doi.org/10.1787/888932343133



For many of the partner countries and economies, Level 2 is also the modal level, while several have more students performing at Level 1a than at any other level: Albania, Argentina, Azerbaijan, Brazil, Indonesia, Kazakhstan, Montenegor, Braman, Peru, Qatta and Ilunisla. In Kryguzstan, the modal level was below Level 1b.

Figure 12.36 shows each country's mean score on the non-continuous subscale, and the statistically significant differences between them. For each country shown on the left in the middle column, the list of countries on the right hand column shows countries whose mean scores are not sufficiently different the distinguished with confidence. For all other cases, one country has a higher performance than another if it is above it in the list in the middle column, and a lower performance if it is below.

Table 12.19 presents the mean score, variation and gender difference for each countity on the non-continuous texts subscales. While girk outperform boys in every country on this subscale, the gap is generally narrower than or occurring the country of this subscale, the gap is generally narrower than or occurring the country of the subscale, the gap between topy and girk is less than 20 scale score points, includes several Latin American countries the gap between boys and girk is less than 20 scale score points, includes several Latin American countries the gap termance in Colombia is only 5 points. The only other country with a strainfuly small gap between more considerable of the contraction of the contrac

The relative strengths and weaknesses of countries in text-format subscales

The PISA reading assessment was designed so that the sets of tasks based on texts in each text format covered at similar range of difficulties, question formats (selected responses and constructed response) and aspects, and returned to a wide variety of text types. This was intended to ensure that any differences in performance on the text-format subscales could be confidently attituded to the text format variable rather than to the effects of other variables.

Figure 1.2.37 shows the differences between countries' scores on the continuous and non-continuous texts subscales.

The average performance in continuous and non-confinuous tasks is almost identical, at 494 and 493 score points, respectively. Nevertheless, there is variation across countries. Some countries perform consistently across the text-format tubucales, showing a similar marginal difference in performance in favour of confinuous texts to the average difference of one point, or an even smaller difference than the average difference. The OCCO countries filands, tuxenhouge and terinal, and the partner countries filands and frinkeld and folsops are in the latter category. However, some variation in performance on the two text-format subscales is more common within countries.

Seventen countries perform significantly better – by at least 10 points – on the continuous texts substacle than on the non-continuous scale, including two very high performing partner economics, Shamplai-China, and Hong Kong-China, and some very lose-performing partner countries, including Kyngrastan, Azerdaijan, Peru, Pananaa, Qalas, Alania and Kazabstan. Despite their apparent heterogeneity in the overall level of performance, the countries in this category may place more emphasis in their curriculs on reading confluenous texts, tather than reading a more disense array of texts. There are fewer countries with substantially higher performance (by more than 10 points) on the non-continuous than on the confinenous subscale.

Gender differences in the text-format subscales

When compared with the overall reading scale, girls perform consistently better on the continuous subscale while the gap generally narrows somewhat between boys and girls on the non-continuous tasks. The differences in gender performance are quite marked when comparing the two subscales directly.

The previous section identified countries in which there are comparatively large differences in performance, in either differences in the section of section of section of section of section of the section of s



■ Figure I.2.37 ■

Comparing countries on the different text format subscales

Country performance on the subscale is between 0 to 3 score points higher than on the combined reading scale Country performance on the subscale is between 3 to 10 score points higher than on the combined reading scale Country performance on the subscale is 10 or more score points higher than on the combined reading scale Country performance on the subscale is between 0 to 3 score points lower than on the combined reading scale Country performance on the subscale is between 3 to 10 score points lower than on the combined reading scale Country performance on the subscale is 10 or more score points lower than on the combined reading scale

		Performance difference between the combined read	
	Reading score	Continuous texts	Non-continuous texts
Shangha-China	556	8	176-
Konea	539	-1	3,
inland	536	-1	-1
dong Kong-China	533	3	
lingapore	526	4	13
anada	524	0	
New Zealand	521	-3	- 11
apan	520		-2
Australia	515	-2	9
Netherlands	508	-2	1 6
lekgum	506	-2	5
lorway	503	2	-6
stonia	501	42	78-
witzerland	501	-2	
oland	500	2	
eland	500	0	
hited States	500		1
iechtenstein	499	-	
weden	497	2	0
Jermany	497	-2	0
relend	496	1	
TARKE	496	4	3
Innese Taipei	495	1	5
Nomark	495	1	-2
inited Kingdom	194		21.
lungary	494	3	
orugal	189	1	1
Aacao-China	487	1	4
taly	485	3	-10
abya.	484	0	-10
		0	3
lovenia.	483		
reece	483	4	12
pain	481	3	-9
zech Republic	478	1	-4
lovak Republic	477	2	-4
matra	476	2	-4
wae!	474	3,	,2
usembourg	472	-1	
ustria	470	0	2
thuarea	468	2	-4
unkey	464	2	-3
Oubas (UAE)	499	1	0
Jussian Federation	499		
hile	449		-6
orbia	442	2	-4
lakana	429	4	
Programy	426	1	4
Arseco	425	1	-1
lomama	424	1]	0
hakad	421	2	2
nnidad and Tobago	416	1	0
nnusu and topago Colombia	413	10	-4
icani	413	2 2	
	412	2	-10
iontenegro		1	-10 -MB
rdan	405	- 22	
279583	404	4	-11
ndonesia	402	4	-3
irgentina	398	2	
azakhstan	390	The second second	-29
diana	385	7	
otar	372	4	
anama.	371	3	
cru	370	4	
zerbayan	362	0	
lyrgyzstan	314	100	

OLCO avrage Source: OECD, PISA 2009 Database, Tables 1 2 3, 1 2 16 and 1 2 19 Statt link Watth http://dx.dox.org/10.1787/988932343333



■ Figure 1.2.38 ■

Where countries rank in reading continuous and non-continuous texts

Statistically significantly above the OECD average

Not statistically significantly different from the OECD average

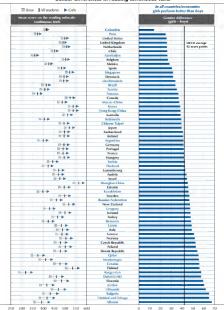
Statistically confirmed below the OECD average

		Statist	ically again	ficantly bek	w the OEC	D average							
		Co	ntinuo	us texts					Non	n-continuous texts subscale			
				Range	of rank							of rank	
	Mean Score S.E.	OECD o	countries	All co	entries/ omies				COM	CD Vines	All con	intrius/ pmies	
		S.E.	Upper	Lower	Upper	Lower		Mean	s.e.	Upper	Lower	Upper	Lower
hanghar-China	564	(2.5)			1	- 1	Korea	542	(3.6)		1	1	3
Compa	538	(3.5)	- 1		2	4	Shorgha-Clima	539	[2 4)			1	- 4
tong Kong-China	538	(2.3)			2	- 4	Singapore	539	(1.1)				3
heland	535	(2-3)	1	2	2	- 1	Finland	535	(2-4)	2 2	3	3	5
anada ingapore	524	(7.1)	- 3	- 4	5	- 6	New Zealand Canada	532 527	(2.3)	- 2	- 4	- 4	- 6
apan	520	(3.6)	- 1	- 5	5	8	Australia.	524	(2.3)	- 4	6	6	9
iew Zealand	518	(2.4)	- 4	6	6	9	Hong Kong-China	522	(2.3)			7	9
untralia		(2.5)		7	ð	10	Japan	518	(3.5)	5	8	7	11
etherlands	506	(5:00	5	74	.8	18	Netherlands	514	[5,1)	5	10	7	14
40mwiry	505	(2.6)		12	10	15	Estoma	512	(2.7)	6	10	9	13
lelgium	504	(2.4)	7	12	10	15	Belgum	511	(2.2)	7	10	10	13
oland celand	502	(2.7)	7	15	10	19	Lischtenstein United Nooden	506	(3.2)	9	13	11	18
celand Inited States	500	(3.7)	9	15	12	24	United Kingdom Switzerland	506 505	(2.5)	9	13	12	17
aveden	499	(3-0)	0	19	11	24	Unded States	503	(3.5)	9	17	12	22
witzerland	498	(2.5)	10	20	13	24	Chatese Taper	500	(2-8)			14	23
stonsa	497	[2.7]	10	20	13	25	Iceland	499	(1.5)	12	17	16	22
lungary	497	B 3)	10			27	France	196	00		20	15	29
reland	497	(3.5)	10	22	13	27	Sweden	458	(2.8)	12	20	160	
hinese Tupei	496	(2.6)			14	26	Norway	498	(2.6)	12	19	16	
Denmark	496	(21)				25	Germany	497	(2.8)	12	20	16	
Jermany Jechtenstein	496	(3.0)	12	22	15	27	Iroland Poland	496	(2.8)	12	20	17	26.
rance	492	(3.0)	15	25	18	31	Poland Denmark	493	(2.8)	15	20	22	27
rance ortugal	492	(3.2)	15	25	18	31	Portugal	493		20	21	24	28
Inted Kingdom	492	(2.4)	17	24	23	30	Hangary	487		20	22	25	29.
laly	489	(1.6)	20	24	25	30	Labra	487			-	25	29
Ascao-China	488	(0.9)			27		Macao-Chesa	481	(1.1)			28	30
invece	487	(4.3)	19	28	23	35	Italy	476				30	3.4
pas	484	(2:1)	23	27	28	34	Slovenia	476		23	26	30	23
lovenia	484		24	27	30	34	Czech Republic	474	(3 4)	23	30	29	38
atrea	454	(3-0)			28	36	Spain	473	(2.1)	24	30	31	38
lovak Republic Zech Republic	479	(2.6)	26 25	29	32	37	Assina Greece	472	(4.3)	23 23	31	30	39
zech Kepublic realia	479	(2.9)	- 23	27	33	37	Create	472	(4.3) (3.0)	23	31	30	39
east.	477	(3.6)	26	31	32	39	Lucenbourg	472	(1.2)	26	30	33	38
usembourg	471		29	31	37	40	Slovak Republic	471	[2-80	24	31	33	39
rthuarea	470	(2.5)			37	41	Israel	467	B.59	27	32	3.4	42
ustna	470	(2.9)	29	32	37	41	Lithiania	462	[2.6)			39	42
urkey	466	(3.5)	30	32	38	43	Turkey	461	(3.8)		32	39	43
Oubas (UAE)	461	(7.2)			41	-63	Dubas (UAE)	460	(1.3)			40	42
luseen Federation		(3.1)			41	43	Resistan Federation	452	(3.5)			42	44
hile	453	(3.1)	33	33	45	46	Chile Sorbia	444	(3.2)	33	33	44	45
erbia Iofgana	414	(2:3) (6:8)			45	50	Serbia Messco	438	(2.9)	34	34	46	45
Integralsy	429	(2.7)			46	49	Romana	424	(4.5)	34	- 51	46	50
Anaco	426	(2-0)	34	34	47	50	Thailand		(2.7)			46	50
lomania	423	[4-0)		-	46	52	Bulgana	421	(7.2)			46	52
haland	423	(2.0)			47	51	Unappay	421	(2.7)			47	51
nnidad and Tobago	418	(1.3)			50	53	Tinnedad and Tobago	417	(1:4)			49	
ordan		(3-2)			50	55	Colombia	409	(4.1)			51	54
Colombia	415	B 7)			50	56	Brazel	408	[2:6)			51	53
trazil	414	(2.8)			51	56	Indonrea	359	(4.5)			53	57
Aontenegro	411	(1.6)			53 54	56 58	Montenegro	398	(1.9)			54	56 58
imena ndonesa	405	(2.9) (3.7)			55	58	Tunesa Argentesa	393 391	(S-3) (S-2)			55 54	58
ngonesa irgentina		(4.6)			56	60	Jordan	387	(4.1)			56	58
azakhetan	399	(3.1)			57	60	Kazakhetan	371	(3.59)			59	60
Bune	392	(4 1)			59	60	Albana	316	(4.6)			59	62
Quitar	375	(0.9)			61	63	Qutar	361	(0.5)			60	62
eru	374	(3-9)			61	63	Panama.	359	(6.5)			60	64
anama.	373	(6-7)			61	64	Peru	356	(4.4)			61	64
izerbaijan	362	(3.3)			63	64	Azerbaijan	351 293	(4.2)			62	64
yrgyzstan	319	(3.2)				65	Kyrgyzstan		(3.7)				65

Source: OECD, PSA 2009 Database Statistic New Hotsp://dx.doi.org/10.1797/880932243133



 Figure I. 2.39a Gender differences in reading continuous texts



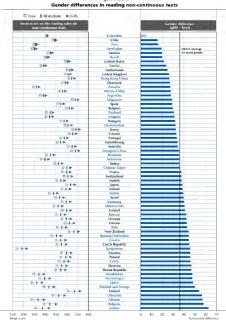
Score point difference

Note: All gender differences are statistically significant (see Annex A3). Countries are ranked in ascending order of the gender score point difference (girls - boys)

Source: OECD. PISA 2009 Database. Table 1.2.16 Station (1000 http://dx.doi.org/10.1787/888932343133



Figure I. 2.39b



Note: Statistically significant gender differences are marked in a darker tone (see Annex A3). Countries are ranked in ascending order of the gender score point difference (girls - boys). Source: OECD, PISA 2009 Database, Table 1,2.19. Station (2007) https://dx.doi.org/10-1787/888932343133



Thus, the gender gap in performance on the non-continuous texts subscale is less than the gap between boys and girls on the continuous texts subscale by about 13 points. Other countries that show a similar pattern of performance, where boys performed better on the non-continuous texts scale than on the continuous and girls performed worse, with a difference of more than 10 points, are the OECD country Turkey and the partner countries and economies Dubai (UAE), Uruguay, Trinidad and Tobago, Brazil and Thailand. In other countries in which the gap narrows substantially between boys' and girls' performance on the non-continuous texts subscale, compared with the gap between them on the continuous texts subscale, a different pattern is evident; here, both boys and girls performed better on the continuous texts subscale, but girls perform much better - by more than 10 points. The OECD countries Slovenia, Chile and Hungary, and the partner countries and economies Argentina, Hong Kong-China, Kyrgyzstan, Croatia, Tunisia and Albania fit this description. Conversely, in some countries, both boys and girls perform better on the non-continuous texts than on the continuous texts subscale. As well as the six countries named previously as performing better overall on non-continuous texts than on the continuous texts subscale (the OECD countries Estonia, New Zealand, United Kingdom and Australia, as well as the partner countries Singapore and Liechtenstein), this category includes the OECD countries the Netherlands, Switzerland, Belgium, France, Korea, Canada and the United States, and the partner countries and economies Chinese Taipei and Latvia. In all of these countries except the United Kingdom and Belgium. boys' results contribute more to the superior performance on the non-continuous texts subscale than do pirls' results.

In sum, boys tend to do better in handling nen-continuous rather than continuous tests. This may be associated with the kinds of reading preferred by boys and gift, which is examined in Volume III. The results in Volume III show, for example, that while substantial numbers of both gifts and boys do not read much for pleasure at all, among those who do, gift tend to fearure larger texts, such as prose fiction and sene non-fiction books, whereas boys spend more time reading newspapers and comics. How accustomed the two gender groups are to these different kinds of texts may belle position their different preformance on the continuous and monocintious sets without preformance on the continuous sets without pre

Examples of the PISA 2009 reading units

The questions are presented in the order in which they appeared within the unit in the main survey. Percentages of student responses are not provided in the tabulation of framework characteristics (as they were in the parallel material in the 2006 international report) because several of the units were only administened by some of the countries, and the comparison of percentages between questions in those units and other units might lead to a ministerpretation of task difficulty.



Figure I.2.40 F BRUSHING YOUR TEETH

Do our teeth become cleaner and cleaner the longer and harder we brush them?

British researchers say no. They have actually tried out many different alternatives, and ended up with the perfect way to brush your teeth. A two minute brush, without brushing too hard, gives the best result. If you brush hard, you harm your tooth enamed and your gums without loosening food remnants or plant.

Bente Hansen, an expert on tooth brushing, says that it is a good idea to hold the toothbrush the way you hold a pen. "Start in one comer and brush your way along the whole row," she says. "Don't forget your tongue either! It can actually contain loads of bacteria that may cause bad breath."



"Brushing your Teeth" is an article from a Norwegian magazine.

Use 'Brushing Your Teeth' above to answer the questions that follow

BRUSHING YOUR TEETH - OUESTION 1

Situation: Educational

Text format: Continuous Text type: Exposition

Aspect: Integrate and interpret – Form a broad understanding

Question format: Multiple choice Difficulty: 353 (Ia)

What is this article about?

A The best way to brush your teetl

B. The best kind of toothbrush to use.

D. The way different people brush their teeth

Scoring

Full Credit: The best way to brush your teeth.

Comment

This task requires the reader to recognise the main idea of a short descriptive text. The text is not only short, but about the very familiar, everyday topic of brashing one's texth. The language is quite idiomatic ("leads of bacteriar", "bad breath", and the text is composed of short paragaphs and familiar synthesis structures with straightforward heading and a supporting illustration. All of these leatures combine to make the text very approachable.

The difficulty of this question is located towards bottom of Level 1a, among the easier PSA reading questions. The question stem is rather open and broad, directing the reader to lock for a broad generalisation as an answer. The words of the key ("The best way to brush your teeth") include a term that is part of the title ("Thenhing) your teeth", and if—dawning not knowledge, about the conventional structures and inclusers of forces. There is an expectation that a title is likely to summarise a text, the reader need go no further than the title to find the key, Should confirmation be sought, the first three sentences of the body of the text also encapsulate the min focks, and it is repeated by illustration and claboration in what little remains of this short piece. Thus the required information is both prominent and repeated in a short and simple text. Ill markets or deribitely case greating tasks.

BRUSHING YOUR TEETH - OUESTION 2

Situation: Educational Text format: Continuous Text type: Exposition

Aspect: Access and retrieve - Retrieve information Question format: Multiple choice

Difficulty: 358 (Ta) .

What do the British researchers recommend?

C. That you do not brush your teeth too hard.

Scoring

Full Credit: C. That you do not brush your teeth too hard.

Comment

Another question located at Level 1a, this task requires readers to retrieve a specific piece of information from the text rather than recognise a broad generalisation (as in the previous task); the question is therefore classified as access and retrieve by aspect. The task explicitly directs the reader to the second paragraph with the literal match to "British researchers". It nevertheless requires some synthesis and some inference, to understand that the British researchers referred to at the beginning of paragraph 2 are those giving the advice throughout the paragraph, and that "gives the best results" is synonymous with "recommend". Performance on this task showed that the distractor providing most competition for the key is the first one, "That you brush your teeth as often as possible", presumably because it draws on a plausible misconception based on prior knowledge.

BRUSHING YOUR TEETH - QUESTION 3

Situation: Educational Text format: Continuous

Text type: Exposition Aspect: Access and retrieve - Retrieve info

Question format: Short response Difficulty: 285 (7b) .

Why should you brush your tongue, according to Bente Hanseni

Scoring

Full Credit: Refers either to the bacteria OR getting rid of bad breath, OR both. Response may paraphrase or quote directly from the text.

- To get rid of bacteria.
- Your tongue can contain bacteria.
- Bacteria.
- Because you can avoid bad breath.
- Bad breath.
- To remove bacteria and therefore stop you from having bad breath. [both]
- It can actually contain loads of bacteria that may cause bad breath. [both]
- Bacteria can cause bad breath

9

_

The wording of the question provides how terms that can be used literally to find the relevant section of the text. Plenter Hanner "and "Impure". Moreover, the term Bente Hanner" occurs in a perminent position at the very Plenter Hanner "and "Impure". Moreover, the term Bente Hanner" occurs in particular position at the very beginning of the last passgraph, to the same passgraph the term "longue" occurs, giving on even more provise close for locating the event place in which the required information is to be found. It and of these terms occurs only once in the text, so the reader does not need to deal with any competing information when matching the question to the relevant rate of the "location".

With a difficulty located in the lowest described level, Level 1b, this is one of the easiest questions in the PISA 2009 reading assessment. It does nevertheless require a low level of inference, since the reader has to understand that "It" in the last southern cerless to 'you tongue." A further element that night be expected to contribute to utilically is that the focus of the question is relatively abstract the reader is safed to dentify a cause ("Why"). Milgaining is that the focus of the question is relatively abstract the reader is safed to dentify a cause ("Why"). Milgaining southern that the contribution of the cause of the safety of the contribution of the cause of the safety ("Anne you cause but, proposed to the cause of the cause of the safety of the cause of the safety of the cause o

BRUSHING YOUR TEETH - QUESTION 4	146	
Situation: Educational	626	Secol S
Text format: Continuous	so	Level 2
Text type: Exposition Aspect: Reflect and evaluate – Reflect on and evaluate the form of a text	480	Level 2
Question format: Multiple choice	> ""	Level Se
Difficulty: 399 (Level 1a) •	262	Level 16

Why is a pen mentioned in the text?

- A To help you understand how to hold a toothbrush
- B. Because you start in one corner with both a pen and a toothbrush.
- C. To show that you can brush your teeth in many different ways.
- D. Because you should take tooth brushing as senously as writing

Scoring

Full Credit: A. To help you understand how to hold a toothbrush.

Comment

The last of the tasks in this unit is located near the top of Level 1 a in difficulty. Its aspect is reflect and evaluate because it requires standing back from the text and considering the intention of one part of it. Although this is a relatively abstact task in comparison with others in this unit, the wording of both the question stem and the key gives substantial support. The reference in 'per' in the stem directs the reader to the third pangaph. The wording of the keys has a direct match with the wording in the relevant part of the text "how to hold a toothirs" and "hold the toothbrush the way... "respectively. The task requires the mader to recognise an analogi, but the analogical thinking is a sain, exolicit there in the text "hold the toothbrush the way would at a not."

The familiar content and the brevity of the text help to explain why this question is relatively easy, while its somewhat abstract focus accounts for the fact that it is the most difficult of the unit.



Figure I.2.41 MOBILE PHONE SAFETY

Are mobile phones dangerous? Radio waves are not powerful enough to can heat up body tissue, having damaging cause heat damage to the body. Key points offacts · Conflicting reports 2. Magnetic fields created by mobile phones The magnetic fields are incredibly weak. about the health risks and so unlikely to affect cells in our body. of mobile phones body cells work. appeared in the late 1990s 3. People who make long mobile phone calls

· Millions of pounds have now been invested in scientific research to investigate the effects of mobile nhones

- sometimes complain of fatigue, headaches, and loss of concentration
- 4. Mobile phone users are 2.5 times more likely to develop cancer in areas of the brain adjacent to their phone ears
- 5. The International Agency for Research on Cancer found a link between childhood cancer and power lines. Like mobile phones, power lines also emit radiation
- 6. Radio frequency waves similar to those in mobile phones altered the gene expression in nematode worms.

These effects have never been observed under laboratory conditions and may be

due to other factors in modern lifestyles. Researchers admir it's unclear this increase is linked to using mobile phones

The radiation produced by power lines is a different kind of radiation, with much more energy than that coming from

Worms are not humans, so there is no guarantee that our brain cells will react in

If you use a mobile phone

Key points • Given the immense numbers of mobile phone users, even small adverse effects on health could have major public health implications.	Keep the calls short.	Don't use your mobile phone when the reception is weak, as the phone needs more power to communicate with the base station, and so the radio-wave emissions are higher.		
In 2000, the Stewart Report	Carry the mobile phone away	Don't buy a mobile phone with a high		
(a British report) found no known	from your body when it is on	"SAR" value ¹ . This means that		
health problems caused by mobile	standby.	it emits more radiation.		
phones, but advised caution,	Buy a mobile phone with a long	Don't buy protective gadgets unless		
especially among the young, until	'talk time'. It is more efficient,	they have been independently tested.		

and has less powerful emissions. 1. SAR (specific absorption rate) is a measurement of how much electromagnetic radiation is absorbed by body tissue whilst using a mobile phone.

"Mobile Phone Safety" on the previous two pages is from a website. Use "Mobile Phone Safety" to answer the questions that follow

MOBILE PHONE SAFETY - OUESTION 2

more research was carried out. A

further report in 2004 backed this up.

Situation: Public Text format: Non-continuous

Text type: Exposition Aspect: Integrate and interpret - Form a broad understanding

Question format: Multiple choice

Difficulty: 567 (Level 4) .

A. To describe the dangers of using mobile phones B. To suggest that debate about mobile phone safety is ongoing.

C. To describe the precautions that people who use mobile phones should take.

D. To suggest that there are no known health problems caused by mobile phones



3

Scoring

Full Credit: To suggest that debate about mobile phone safety is ongoing.

Comment Classified as a form a broad understanding task within the integrate and interpret aspect, this task focuses on detecting a theme from the repetition of a particular category of information, in this case the "Key Points", a series of four boxed snippets ranged down the left hand side of the two-page text. Tasks addressing the broad understanding category are typically fairly easy, as they tend to focus on repeated and often prominent ideas in a text. However, several features of this text and task conspire to make it comparatively difficult, at Level 4. The four short Key Points tell their own story: they are related to but do not summarise the information in the body of the two main tables, so the reader needs to focus on what appears as a peripheral part of the text structure. Moreover, while all of the boxes have the caption "Key Points" the content is diverse in terms of text type, making the task of summary more difficult. The first two Key Points give a brief history of the controversy about mobile phones, the third makes a conditional proposition, and the fourth reports an equivocal finding. The fact that ambiguity, uncertainty and opposing ideas are the content of the Key Points is likely, of itself, to make the task more difficult. Here, identifying the "purpose" (which in this context is equivalent to the main theme) means establishing a hierarchy among ideas presented in the Key Points, and choosing the one that is most general and overarching. Options A and C represent different details of the Key Points, but not a single idea that could be described as overarching. Option D lifts a clause (out of context) from the fourth Key Point. Only option B, selected by 45% of students from across the OECD countries, presents a statement that synthesises the heterogeneous elements of the Key Points.



"It is difficult to prove that one thing has definitely caused another."

What is the relationship of this piece of information to the Point 4 Yes and No statements in the table Are mobile phones dangerous?

- A It compares the Yes assument but door not make
- B. It proves the Yes argument
- C. It supports the No argument but does not move
- D. It shows that the No argument is wrong

Scoring

Full Credit: C. It supports the No argument but does not prove it.

Comment

This take requires the reader to recognise the relationship between a generalised statement external to the text and a pair of statement in a table. It is to suited a reflect and evaluate in terms of agency because of this sectional reference point. This is the most difficult task in the MOBILE PHONE SAFEY unit. right on the border of level 4 and Level 5. The degree of difficulty is influenced by a number of factors. First, the stem statement uses shartest terminology (*! the following the statement of the point of the statement of the statemen



on: Public

Text format: Non-continuous Text type: Exposition

Aspect: Reflect and evaluate - Reflect on and evaluate the content of a sext

Question format: Open constructed response Difficulty: 526 (Level 3) -

Look at Point 3 in the No column of the table. In this context, what might one of these "other factors" be? Give a reason for your answer.

Scoring **Full Credit**

Identifies a factor in modern lifestyles that could be related to fatigue, headaches, or loss of concentration. The explanation may be self-evident, or explicitly stated. For example:

- Not getting enough sleep. If you don't, you will be tired.
- · Being too busy. That makes you tired.
- Too much homework, that makes you tired AND gives you headaches.
- Noise that gives you a headache.
- Stress.
- Working late.
- Exams.
- The world is just too loud.
- People don't take time to relax anymore.
- People don't prioritise the things that matter, so they get grumpy and sick.
- Computers.
- Pollution. Drugs.
- Watching too much TV.
- Microwave ovens.
- Too much emailing

Comment

Another task in which the reader needs to reflect on and evaluate the content of a text, this task calls on the ability to relate the text to knowledge external to the text. Readers must give an example from their own experience of a factor in modern life, other than mobile phones, that could explain "fatigue, headaches and loss of concentration". As in the previous task, one step in completing this task successfully is to locate the relevant information using a number reference (here, "Point 3"). The reader's subsequent steps are less complex than in the previous task, since only the YES part of Point 3 need be taken into account. In addition, the external information that needs to be drawn on is directly related to personal experience, rather than to an abstracted logical statement.

A wide range of responses earn full credit for this task. Full credit is given for producing a factor and providing an explanation as to why this might cause fatigue, headaches and loss of concentration. An example of this kind of response is "Not getting enough sleep. If you don't, you will be fatigued." Full credit is also given if it is considered that the explanation is implicit in the statement of the factor, in which case no explicit explanation is required. An example of this kind of response is "stress". On the other hand, a response such as "lifestyle" is judged too vague, without a supporting explanation or elaboration, and so is given no credit.

Towards the top of Level 3, this task was successfully completed by just over half of the students in OECD countries.

MOBILE PHONE SAFETY - QUESTION 9

Situation: Public Text format: Non-continuous

Text type: Exposition Aspect: Integrate and Interpret - Develop an Interpretation

Question format: Multiple choice

Difficulty: 488 (Level 3) . Look at the table with the heading If you use a mobile phone ...

Which of these ideas is the table based on?

A. There is no danger involved in using mobile phones

- C. There may or may not be danger involved in using mobile phones, but it is worth taking precautions
- D. There may or may not be danger involved in using mobile phones, but they should not be used until we
- E. The Do instructions are for those who take the threat seriously, and the Don't instructions are for everyone else.

Scoring

Full Credit: C. There may or may not be danger involved in using mobile phones, but it is worth taking precautions.

Comment In this task the reader is explicitly directed to look at the second table, and to recognise its underlying assumption. In fact, the assumption is indicated in the last boxed Key Point: that in the absence of decisive evidence about the danger of mobile phones, it is advisable to take caution. The task asks readers to infer the consequences of this judgment, which can be done by checking that the table's contents are consistent with the Key Point. Alternatively, the reader can consult only the table and draw an independent conclusion from it. Option A is incorrect since it flatly contradicts the substance of the Key Point, and is inconsistent with the import of a set of injunctions that neither embargoes nor gives carte blanche to mobile phone use. Option B is rather more plausible, but the word "proven" makes it wrong in light of the information in the Key Point that no known health problems caused by mobile phones were found in the two studies that were cited. Option C presents itself as thebest answer, consistent with both the Key Point and all the detail of the DO and DON'T columns. Option D can be dismissed as nothing more than the heading of a table that reads: "If you use a mobile phone ...", and option £ sets up a specious opposition that has no support in the text, lust under two-thirds of students selected the correct response, making it the easiest of the four tasks related to this challenging stimulus.



■ Figure I.2.42 ■ BALLOON

Height record for hot air balloons The Indian pilot Vijaypat Singhania beat the height record for hot air balloons on November 26, 2005. He was the first person to fly a balloon 21 000 metres above sea level, Record height Side slits 21 000 m can be on to let out only 4% of what is available hot air for at ground level descent. hot air balloon Earlier record 19 800 m The balloon Fabric went out Nylon Jumbo jet towards the sea. 10 000 m When it met the Inflation jet stream it was 2.5 hours taken back over the land again. 453 000 m² (normal hot air balloon 481 m²) New Delhi Weight landing area 1 800 kg 483 km Gondola -Height: 2.7 m Width: 1.3 m Enclosed pressure cabin with in windows Aluminium construction, like airplan Vijavpat Singhania wore a space suit during the trip. Use "Balloon" on the previous page to answer the questions that follow.



A. Singhania was in danger during his balloon trip.



Scoring

Full Credit: B. Singhania set a new world record.

Comment

The main idea of this non-continuous text is stated explicitly and prominently several times, including in the title, 'Height record for hot air ballcon'. The prominence and repetition of the required information helps to explains its essiness: it is becated in the lower half of level 1 a.

Although the main idea is explicitly stated, the question is classified as integrate and interpret, with the subclassification forming a broad understanding, because it involves distinguishing the most significant and general from subordinate information in the text. The first option "ringhania was in dange during his bulleton trip" is a plausible speculation, but it is not supported by amphing in the text, and so cannot qualify as a main idea. The truth option "ringhania travelled over both so and fand"—accustly paraphress information from the sext, but it is a detail rather than the main idea. The fourth option "Singhanis's balleon was enormous"—refers to a conspicuous graphic feature in the text but, again, it is subordinate to the main idea.



Vijaypat Singhania used technologies found in two other types of transport. Which types of transport?

2

2 | 1 | Prince 11 | Strate of Later | Strate | Prince 11 | Strate | Prince 12 | Later | Strate | Later | Strate | Later | Late

Scoring

Full Credit: Refers to <u>BOTH airplanes AND spacecraft</u> (in either order, can include both answers on one line). For example:

- 1. Aircraft
 - 2. Spacecraft
- 1. Airplanes
 - 2. Space ships
- 1. Air travel
- 2. Space travel
- 1. Planes
 2. Space rockets
- 1. lets
 - 2. Rockets

Partial Credit: Refers to EITHER airplanes OR spacecraft. For example:

- rtial Credit:

 Spacecraft
- · Space travel
- · Space rockets
- Rockets
 Aircraft
- Airolanes
- Air travel
- lets



In this task full credit is given for responses that lists the two required types of transport, and partial credit is given to responses that listed one type. The scoring rules reproduced above demonstrate that credit is available for several different paraphrases of the terms "airplanes" and "spacecraft".

The partial credit score is located in the upper half of Level 2 while the full credit score is located at Level 4, illustrating the fact that access and retrieve questions can create a significant challenge. The difficulty of the task is particularly influenced by a number of features of the text. The layout, with several different kinds of graphs and multiple captions, is quite a common type of non-continuous presentation often seen in magazines and modern textbooks, but because it does not have a conventional ordered structure (unlike, for example, a table or graph), finding specific pieces of discrete information is relatively inefficient, Captions ("Fabric", "Record height", and so on) give some support to the reader in navigating the text, but the information specific required for this task does not have a caption, so that readers have to generate their own categorisation of the relevant information as they search. Having once found the required information, inconspicuously located at the bottom left-hand corner of the diagram, the reader needs to recognise that the "aluminium construction, like airplanes" and the "space suit" are associated with categories of transport. In order to obtain credit for this question, the response needs to refer to a form or forms of transport, rather than simply transcribing an approximate section of text. Thus "space travel" is credited, but "space suit" is not. A significant piece of competing information in the text constitutes a further difficulty: many students referred to a "jumbo jet" in their answer. Although "air travel" or "airplane" or "jet" is given credit, "jumbo jet" is deemed to refer specifically to the image and caption on the right of the diagram. This answer is not given credit as the jumbo jet in the illustration is not included in the material with reference to technology used for Singhania's balloon.



Scoring

Full Credit: Refers explicitly or implicitly to the height of the balloon OR to the record. May refer to comparison between the jumbo jet and the balloon.

- . To show how high the balloon went.
- . To emphasise the fact that the balloon went really, really high.
- To show how impressive his record really was he went higher than jumbo jets!
- As a point of reference regarding height.
- . To show how impressive his record really was. [minimal]

Comment

The main idea of the text is to describe the height record set by Vijaypat Singhania in his extraordinary balloon. The diagram on the right-hand side of the graphic, which includes the jumbo jet, implicitly contributes to the "wow!" factor of the text, showing just how impressive the height achieved by Singhania was by comparing it with what we usually associate with grand height: a jumbo jet's flight. In order to gain credit for this task, students must recognise the persuasive intent of including the illustration of the jumbo jet. For this reason the task is classified as reflect and evaluate, with the sub-category reflect on and evaluate the content of a text. At the upper end of Level 3, this question is moderately difficult.

BALLOON - QUESTION 6

Situation: Educational Text format: Non-conti Text type: Description Aspect: Reflect and evaluate - Reflect on and evaluate the content of a text Question format: Multiple choice Difficulty: 411 (Level 2) .





Why does the drawing show two balloons?

- A. To compare the size of Singhania's balloon before and after it was inflated

Scoring

Full Credit: B. To compare the size of Singhania's balloon with that of other hot air balloons.

It is important for readers to be aware that texts are not randomly occurring artefacts, but are constructed deliberately and with intent, and that part of the meaning of a text is found in the elements that authors choose to include. Like the previous task, this task is classified under reflect and evaluate because it asks about authorial intent. It focuses on a graphic element - here the illustration of two balloons - and asks students to consider the purpose of this inclusion. In the context of the over-arching idea of the text, to describe (and celebrate) Singhania's flight, the balloon illustration sends the message, "This is a really big balloon!", just as the jumbo jet illustration sends the message, "This is a really high flight!" The caption on the smaller balloon ("Size of a conventional hot air balloon") makes it obvious that this is a different balloon to Singhania's, and therefore, for attentive readers, renders options A and C implausible. Option D has no support in the text. With a difficulty near the bottom of Level 2, this is a rather easy task.



■ Figure I.2.43 ■ BLOOD DONATION



Blood donation is essential.

There is no product that can fully substitute for human blood. Blood

donation is thus irreplaceable and essential to save lives.

In France, each year, 500,000 patients benefit from a blood transfusion.

The instruments for taking the blood are sterile and single-use (syringe, tubes, bags). There is no risk in giving your blood

Blood donation

It is the best-known kind of donation, and takes from 45 minutes to 1 hour

- A 450-ml bag is taken as well as some small samples on which tests and checks will be done - A man can give his blood five times a year, a woman three times.
- Donors can be from 18 to 65 years old.

An 8-week interval is compulsory between each donation.

"Blood Donation Notice" on the previous page is from a French website Use 'Blood Donation Notice' to answer the questions that follow.

BLOOD DONATION NOTICE - OUESTION 8 Situation: Public Text format: Continuous Text type: Ansumentation Aspect: Integrate and Interpret - Develop an interpretation Question format: Open constructed response Difficulty: 438 (Level 2) ----

An eighteen-year-old woman who has given her blood twice in the last twelve months wants to give blood again. According to 'Blood Donation Notice', on what condition will she be allowed to give blood again?

Scoring

Full Credit: Identifies that enough time must have elapsed since her last donation.

- Depends whether it has been 8 weeks since her last donation or not.
- She can if it has been long enough, otherwise she can't.

At a level of difficulty around the middle of Level 2, this task asks the reader to apply the information in the text to a practical case. This is the kind of reading activity that is typically associated with such a text in everyday life, and thus meets one of PISA's aims in answering questions about how well young people at the end of compulsory schooling are equipped to meet the challenges of their future lives.

The reader must match the case described in the question stem with four pieces of information provided in the second half of the text: the age and sex of the prospective donor, the number of times a person is allowed to give

3

blood, and the interval required between donations. Reference to this last piece of information is needed in order to meet the task's requirement to stipulate the "condition" under which the young woman can give blood. As evidenced in the two examples of lad readit responses, taskents are given credit or either a specific answer that includes reference to the interval of eight weeks between donations, or for a more generalised answer, such as "She can if it has been four groungly, delinewise the can?".

BLOOD DONATION NOTICE - OUESTION 9

Situation: Public Text format: Continuous Text type: Argumentation

Aspect: Reflect and evaluate – Reflect on and evaluate the content of a text

Question format: Multiple choice Difficulty: 368 (Level 1a)

The text says: 'The instruments for taking the blood are sterile and single-use .

Why does the text include this information?

A. To reassure you that blood donation is sa

B. To emphasise that blood donation is essential.

C To explain the uses of your blood.

D. To give details of the tests and checks

Scoring

QUESTION INTENT:

Reflect and evaluate: Reflect on and evaluate the content of a text.

Recognise the persuasive purpose of a phrase in an advertisement.

Full Credit: A. To reassure you that blood donation is safe.

Comment

To gain credit for this task, students must recognise the persuasive purpose of part of an advertisement. The task is classified as reflect and evaluate because students need to consider the wider context of what appears to be a simple statement of fact in order to recognise the underlying purpose for its inclusion.

The relative easiness of this task, which is located in the lower half of Level 1a, can be attributed to the brevity of the test and also to the fact that it deals with an everyday topic. Another characteristic of relatively song questions exemplified here is that they hipscally draw on information that is consistent with common preconceptions: there is nothing contrary to expectations in the notion that people are encouraged to clonate blood and reassured that donation involves no risk. Although the persuassive intent of this text is not stated explicitly in the words of the blood donation notice, the feel that it is executing people to donate blood and reassiming them about the salety of blood donation can be inferred from several statements. The text begins with "Blood donation is essential", a notion that is repeated and eleborated in the second paragraph," (irrelpsecabel and easternish!). The text also refers to the absence of risk immediately after the section of text in ficus in this task, though the logical connection between the two paragraphs—evidence conclusion—must be inferred.



■ Figure I.2.44 ■ MISER

THE MISER AND HIS GOLD A fable by Aesop

A miser sold all that he had and bought a lump of gold, which he buried in a hole in the gound by the best dot and while the wide of an old with the work to look at it daily. One of the worken observed the miser's frequent wishis to the spot and decided to watch his movements. The workman soon discovered the secret of the history to diging down, came to be lump of gold, and sole it. The middlenging down, came to be lump of gold, and sole it. The middlenging down, came to be lump of gold, and sole it. The middlenging down, came to be lump of gold, on the long to lead the sont per limit of gold and learning the cause, said, "Pope of on gifewer sey, but and to be gold to lear his hair and to make load lamentations. A neighbour, seeing and below a stone, of the gold is still hying there. It will do you quite the sur-

Use the fable "The Miser and his Gold" on the previous page to answer the questions that follow.

MISER – QUESTION 1		600	Local 6
			Level 5
Situation: Personal		626	Level 4
Text format: Continuous		553	
Text type: Narration		90	Level 3
Aspect: Integrate and interpret – Develop an interpretation			Level 2
		-> 400	Level Se
Question format: Closed constructed response		315	Level St.
Difficulty: 373 (Level 1a)		263	Lovel 16
			Ballow Level 15

Read the sentences below and number them according to the seguence of events in the text

- ☐ The miser decided to turn all his money into a lump of gold.
- ☐ A man stole the miser's gold.
- ☐ The miser dug a hole and hid his treasure in it.
- $\hfill\square$ The miser's neighbour told him to replace the gold with a stone.

Scoring

Full Credit: All four correct: 1, 3, 2, 4 in that order.

Comment

Fables are apopular and respected text type in many cultures and they are a favourite text type in reading assessments for similar reasons they are shot, self-contained, mostly instructive and have setted the text of time. With perhaps not the most common reading material for young adults in OECD countries they are nevertheless likely to be limitate from childred, and the pinky, othen exceits coherentsions of a fable can pleasantly surprise even a blast 15-year-old. MISER is typical of its genre: it captures and satiries a particular human weakness in a neat economical story, executed in a single paragraph.

Since narrations are defined as referring to properties of objects in time, topically answering "whom" questions, it is appropriate to include a task based on a narrative text that as for a series of relative through the properties of the include a task based on a narrative text that as for a series of relative through matched with the into the cornect requence. With such a short text, and with statements in the task that are closely matched with the terms of the soay, this is a case yask, around the middle of the CVII. On the other hand, the language of the text is rather formal and has some odd-fashioned locations, frantations were asked to reproduce the faith-filte style of the source version. This characteristic of the text is filkely to have added to the difficulty of the question.

MISER - QUESTION 7

Situation: Personal
Text format: Continuous

Text type: Narration
Aspect: Access and retrieve – Retrieve information

Question format: Short response Difficulty: 310 (Level 1b) + Con of 8

April 1

Level 1

Level 2

Level 2

Level 2

Level 2

Level 1

Le

How did the more set a lump of soli

Scoring

Full Credit: States that he sold everything he had. May paraphrase or quote directly from the text.

- He sold all he had.
- He sold all his stuff.
- He bought it. [implicit connection to selling everything he had]

Comment

This is one of the existent basis in PSA reading, with a difficulty in the middle of Level 1b. The reader is required to access and retrieve a piece of explicitly sixted information in the opening sentence of a very short text. In gain full credit, the response can either quote directly from the text. "He exist all that he had" — or provide a paraphase such as "Te levid fill his staff." The formal language of the use, which is likely to have added difficulty in other tasks use has "Te levid fill his staff." The formal language of the use, which is likely to have much impact here because the required information is located at the very beginning the rin the unit, is unlikely to have much impact here because the required information is located at the very beginning of the text. Although this is an externed very any agestion in PSA's tame or ofference, it still requires a small degree of inference, beyond the absolutely literal: the reader must infer that there is a causal connection between the first proposition that the interes vold all the hards and the becough gold."

MISER - OUESTION 5

Situation: Personal Text format: Continuous

Text type: Narration
Aspect: Integrate and interpret – Develop an interpreta

Question format: Open constructed response Difficulty: 548 (Level 3) | 20md 6 | 20md 6 | 20md 8 | 20md 16 | 2

Here is part of a conversation between two people who read "The Miser and his Gold"



The neighbor was nast He could recomme replacing gold with somethin better the

No he couldn't The stone was important in the story



What could Speaker 2 say to support his point of view?



Full Credit

Recognises that the message of the story depends on the gold being replaced by something useless or worthless.

- It needed to be replaced by something worthless to make the point.
- . The stone is important in the story, because the whole point is he might as well have buried a stone for all the good the gold did him.
- If you replaced it with something better than a stone, it would miss the point because the thing buried needs to be something really useless.
- A stone is useless, but for the miser, so was the sold!
- Something better would be something he could use he didn't use the gold, that's what the guy was pointing out.
- · Because stones can be found anywhere. The gold and the stone are the same to the miser. ["can be found anywhere" implies that the stone is of no special value?

Comment

This task takes the form of setting up a dialogue between two imaginary readers, to represent two conflicting interpretations of the story. In fact only the second speaker's position is consistent with the overall implication of the text, so that in providing a supporting explanation readers demonstrate that they have understood the "punch line" the moral import - of the fable. The relative difficulty of the task, near the top of Level 3, is likely to be influenced by the fact that readers needs to do a good deal of work to generate a full credit response. First they must make sense of the neighbour's speech in the story, which is expressed in a formal register. (As noted, translators were asked to reproduce the fable-like style.) Secondly, the relationship between the question stem and the required information is not obvious: there is little or no support in the stem ("What could Speaker 2 say to support his point of view?") to guide the reader in interpreting the task, though the reference to the stone and the neighbour by the speakers should point the reader to the end of the fable.

As shown in examples of responses, to gain full credit, students could express, in a variety of ways, the key idea that wealth has no value unless it is used. Vague gestures at meaning, such as "the stone had a symbolic value", are not given credit.

60 who we are. Wouldn't it be much easier to start all this by standing up and Introducing ourselves? Stands up. Good

evening. The three of us are guests in this castle. We have just arrived from the

champagne. My name is Sándor TURAL

Stands up. My name is GÁL, I'm also a

playwright. I write plays as well, all of

them in the company of this gentleman

75 here. We are a famous playwright duo. All

playbills of good comedies and operettas

read; written by GAL and TURAL Naturally, this is my profession as well.

Stands up. This young man is, if you allow

with their help, I'd like to become famous.

They got me invited to this castle. They got

words, I am poor and unknown, for now.

grandmother raised me. My grandmother has assed away. I am all alone in this world. I 95 have no name. I have no money.

me, Albert ADAM, twenty-five years old, composer. I wrote the music for these kind 85 gentlemen for their latest operetta. This is

my first work for the stage. These two elderly angels have discovered me and now,

on my dress-coat and tuxedo made. In other

Other than that I'm an orphan and my

I'm a playwright, I've been writing plays for

thirty years, that's my profession. Full stop.

65 dining room where we had an excellent

dinner and drank two bottles of

70 Your turn.

GÁL

GÁL and TURAL 80 Together. And this young man ...



■ Figure 1.2.45 ■ THE PLAY'S THE THING

Takes place in a castle by the beach in Italy.

FIRST ACT

- Omate guest room in a very nice beachside castle. Doors on the right and left. Sitting 5 room set in the middle of the stage: couch, table, and two armchairs. Large windows at the back. Starry night. It is dark on the stage.
- When the curtain goes up we hear men conversing loudly behind the door on the left. 10 The door opens and three tuxedoed gentlemen enter. One turns the light on immediately. They walk to the centre in silence and stand
- around the table. They sit down together. Gill in the armchair to the left, Turas in the one on 15 the right. Addim on the couch in the middle. Very long, almost awkward silence. Comfortable strutches Silonco Thurs-

Why are you so deep in thought? 20 TURAI

I'm thinking about how difficult it is to begin a play. To introduce all the principal characters in the beginning, when it all starts.

25 I suppose it must be hard.

It is - devilishly hard. The play starts, The audience goes quiet. The actors enter the stage and the torment begins. It's an eternity, 30 sometimes as much as a quarter of an hour

- before the audience finds out who's who and what they are all up to.
- Quite a peculiar brain you've got. Can't you 35 forget your profession for a single minute?

- Not half an hour passes without you 40 discussing theatre, actors, plays. There are other things in this world.
 - There aren't. I am a dramatist. That is my
- You shouldn't become such a slave to

your profession. TURAL

- If you do not master it, you are its slave. 50 There is no middle ground. Trust me, it's no joke starting a play well. It is one of the toughest problems of stage mechanics. Introducing your characters promptly.
- Let's look at this scene here, the three of 55 us. Three gentlemen in tuxedoes. Say they enter not this room in this lordly castle. but rather a stage, just when a play begins They would have to chat about a whole lot of uninteresting topics until it came out

- TURAL But you are young TURAL That cannot be done.
 - And gifted.

100 ÁDÁM And I am in love with the soloist.

fou shouldn't have added that. Everyone in the audience would figure that out anyway.

105 They all sit down TURAL Now wouldn't this be the easiest way to start

Sysig s GÁL 110 If we were allowed to do this, it would be

easy to write plays. Trust me, it's not that hard, just think of this

whole thing as ... 115 GÁL All right, all right, all right, just don't start talking about the theatre again. I'm fed up with it. We'll talk tomorrow, if you wish.

"The Play's the Thing" is the beginning of a play by the Hungarian dramatist Ferenc Molnár. Use "The Play's the Thing" on the previous two pages to answer the questions that follow. (Note that line numbers

Situation: Personal

Difficulty: 730 (Level 6) .

Situation: Personal Text format: Continuous Text type: Narration Aspect: Integrate and Interpret — Develop an Interpretation Question format: Short response



What were the characters in the play doing just before the curtain went up?

Scoring

Full Credit: Refers to dinner or drinking champagne. May paraphrase or quote the text directly.

- . They have just had dinner and champagne.
- . "We have just arrived from the dining room where we had an excellent dinner." [direct quotation]
- "An excellent dinner and drank two bottles of champagne." [direct quotation]
- Dinner and drinks.
- Dinner
- Drank champagne.
- Had dinner and drank.
- They were in the dining room.

Comment

This task Illustrates several features of the most difficult tasks in PISA reaching. The text is long by PISA standard, and it may be supposed that the fictional world depicted it remote from the experience of most 15-year olds. The introduction to the unit tells students that the stimulus of THE PLAY'S THE THING is the beginning of a play by the Hungarian dimantal fereme Models, but there is no other external ocientation. The setting "is a stalle by the beach in Italy" is likely to be exotic to many, and the situation is only revealed gradually through the falloque itself. While individual pieces of excellulary are not particularly difficult, and the tone is other charts, the register of the language is a little mannered. Perhaps most importantly a level of unfamiliarity is introduced by the abstract theme of the discussion: a spolylasticated conversation between characters about the relationship between file and at, and the challenges of writing for the theaster. The text is classified as narration because this theme is dealt with as part of the plays narrative.

While all the tasks in this unit acquire a layer of difficulty associated with the childrages of the text, the cognitive domand of this star in particular is also attituable to the high hevel of interpretation required to define the meaning of the question's terms, in elstion to the text. The reader needs to be also to the distinction between characters and actors. The question refers to what the characters into the scales were doing "glost before the cutain worth up". This is potentially confusing since it requires recognition of a shift between the real world of a stage in a theatre, which has a cardian, and the imaginary world of Gal, Itaal and Adam, who were in the dining noom having dinner just before they entered the guest room the stage setting. A question that assesses attached "capacity to distinguish between real and fixthand worlds seems particularly appropriate in relation to a set whose theme is about just that, so that the complexity of the question is aliqued with the content of the text.

A further level of the task's difficulty is introduced by the fact that the required information is in an unexpected. Occasion. The question refers to the action? The fewer the cutain tower tap? which would bypically lead not to search at the opening of the seene, the beginning of the extoct. On the contain, the information is actually found about halfton, but prough the exact, when Trust reveals that he and his freined? Nave just arrived from the dining orn." While the except for the question shows that several kinds of response are acceptable, to be given full credit readers must demonstrate that the Nave found this inconspicuous piece of information. The need to assimilate information that is contain to expectations—where the reader needs to give full attention to the text in deliance of preconceptions—is highly characteristic of the most demanding reading tasks in FISA.



THE PLAY'S THE THING - OUESTION 4

Situation: Personal Text format: Continuous

Text type: Nurration Aspect: Integrate and interpret – Develop an interpretation Question format: Multiple choice

Difficulty: 474 (Level 2)

'It's an eternity, sometimes as much as a quarter of an hour ... ' (lines 29-30)

According to Turan, why is a quarter of an hour "an eternity"?

- A. It is a long time to expect an audience to sit still in a crowded theatre.
 B. It seems to take forever for the situation to be clarified at the beginning of a play.
- C. It always seems to take a long time for a dramatist to write the beginning of a pla
- Diff seems that time moves slowly when a significant country become on a significant country becomes a

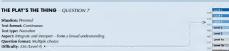
Scoring

Full Credit: B. It seems to take forever for the situation to be clarified at the beginning of a play.

Comment

Near the borderline between Level 2 and Level 3, this question together with the previous one illustrates the fact that questions covering a wide range of difficulties can be based on a single text.

Unlike in the provious task, the stem of this task directs the reader to the relevant section in the play, even quoting the lines, thus releving the reader of any challenge in figuring out where the necessary information is to be found. Nevertheless, the reader needs to understand the content in which the line is uttend in order to respond successfully to fact, the implication of its seems to take foreser for the situation to be Leitlide at the beginning of a play-underpins much of the rest of this extract, which exacts the solution of characters explicitly introducing themselves at the beginning of a play intended of waiting for the action to reveal with other year. Insufar as the uttenure that is at the designing of a play insufaced of waiting for the action to reveal with other year. Insufar as the cuttenure that is a proposed in the stem prompts most of the rest of this extract, repetition and emphasis support the cader in integrating and interpreting the quotation. In that respect to, this task clearly differs from Question 3, in which the required internation to only provided once, and is buried in an unexpected part of the text.



Overall, what is the dramatist Molnár doing in this extraction

A. He is showing the way that each character will solve his own problems

- B. He is making his characters demonstrate what an eternity in a play is like.
- C. He is giving an example of a typical and traditional opening scene for a play
- D He is using the characters to act out one of his own creative problems

Scoring

Full Credit: D. He is using the characters to act out one of his own creative problems.

Comment

In this task the reader is asked to take a global perspective, form a broad understanding by integrating and interpreting the implications of the dialogue across the text. The task involves recognising the conceptual theme of a section of a play where the theme is literary and abstract. This relatively unfamiliar territory for most 13-year-olds is likely to constitute the difficitly of the task, which is located at Level 4. A little under half of the students in OECD countries gained that credit for this task, which is also also did fairly everly across the three distractions with the others divided fairly everly across the three distractions.



■ Figure I.2.46 ■ TELECOMMUTING

The way of the future

lust imagine how wonderful it would be to "telecommute" to work on the electronic highway. with all your work done on a computer or by phone! No longer would you have to jam your body into crowded buses or trains or waste hours and hours travelling to and from work. You could work wherever you want to - just think of all the job opportunities this would open up!

Disaster in the making

Cutting down on commuting hours and reducing the energy consumption involved is obviously a good idea. But such a goal should be accomplished by improving public transportation or by ensuring that workplaces are located near where people live. The ambitious idea that telecommuting should be part of everyone's way of life will only lead people to become more and more self-absorbed. Do we really want our sense of being part of a community to deteriorate even further?

1. "Telecommuting" is a term coined by Jack Nilles in the early 1970s to describe a situation in which workers work on a computer away from a central office (for example, at home) and transmit data and documents to the central office via telephone lines.

Use "Telecommuting" above to answer the guestions that follow.

TELECOMMUTING - OUESTION 1

Situation: Occupational Text format: Multiple Text type: Argumentation Aspect: Integrate and interpret - Form a broad understanding Question format: Multiple choice Difficulty: 537 (Level 3) .



What is the relationship between "The way of the future" and "Disaster in the making"?

- B. They are written in the same style but they are about completely different topics.
- D. They express opposing points of view on the same topic.

Scoring

Full Credit: D. They express opposing points of view on the same topic.

Comment The stimulus for the unit TELECOMMUTING is two short texts that offer contrasting opinions on telecommuting, defined in a footnote to the text as "working on a computer away from a central office". The only addition to the originally submitted text that was made by PISA test developers was this footnote. It was assumed that the term "telecommuting" would be unfamiliar to most 15-year-olds. The footnote was included in order to avoid giving an advantage to students whose language would allow them to unpack the meaning of this compound word. For example, students tested in English may have been able to infer the meaning of the word by combining the meaning of "tele" (distant) and "commute". By contrast, some countries in which English is not the testing language used the English term or a transliteration, which would not provide the same clues to the meaning.



The purpose of each of the short texts in the stimulus is to persuade readers to a point of view, so the stimulus is classified a surgumentation. Given that the purpose of the stimulus material is to discuss an issue related to working life, the text is classified as occupational in terms of situation. The two pieces that make up the stimulus are both continuous, but because they were generated independently and juxtaposed for the purpose of the assessment, the tour farms of assistication of this text is multiple.

This question requires students to recognise the relationship between the two short texts. To answer correctly, students must first form a global understanding of each of the short texts, and then identify the relationship between them: that is, that there y capues containing points of view on the same topic. A fortice containing to the difficulty of this question is the level of interpretation required to identify the position that is expressed in each text. In the first text the authors position is signified clearly easy in the text ("plus imagine how wondeful it would be to "telecommunic" to work...") and reinforced throughout. In contast the second piece contains no direct statement of the author's own position: instead, it is written as a series of sepanes to arguments that the author opposes, so understanding the position of the second author requires a greater level of interpretation than understanding the position of the second author complies as the distribution are containing in relatively straightforward. The weakest students chose option B. These students tall the positions are containing in relatively straightforward. The weakest students chose option B. These students tall to recopies that the work sear are about the same topic, but fail to identify that they express containing views. At Level 3, just over one-half of the students in OCCD countries against cred text file this section.



What is one kind of work for which it would be difficult to telecommute? Give a reason for your answer.

Scoring

QUESTION INTENT:

Reflect and evaluate: Reflect on and evaluate the content of a text

Use prior knowledge to generate an example that fits a category described in a text

Full Credit: Identifies a kind of work and gives a plausible explanation as to why a person who does that kind of work could not telecommute. Responses MUST indicate (explicitly or implicitly) that it is necessary to be physically present for the specific work.

- Building. It's hard to work with the wood and bricks from just anywhere.
- Sportsperson. You need to really be there to play the sport
- Plumber. You can't fix someone else's sink from your home!
- Digging ditches because you need to be there.
- Nursing it's hard to check if patients are ok over the Internet.

Comment

This question requires students to generate an example to profession) that this a given category. The textual information required for this question is found in the footnote definition of elecomomiting. Therefore, although the stimulus is comprised of multiple text, this question is classified as continuous in terms of text format because it only refers to one text elements.

To provide an example of a job in which helecommuting would be difficult, students must link their comprehension of the text the denlition of tele commuting with outside knowledge, since no aspecific protession is mentioned in the text. This question is therefore classified as reflect and evaluate, with the sub-category reflect on and evaluate the content of a text.

In order to gain credit for this question, students needed to give an example and to justify why their example little the given category, and the explanation needed to their either explicit for implicitly to the fact that the worker would need to be physically present in order to perform their job. Although the range of responses eligible for full credit was very wide, many students failed to gain credit because they did not provide an explanation at all, or their gave an explanation that did not show that they understood that the job they listed would regule the worker's physical presence. An example of the latteris, "Digging diches because it would be hard work." Compare this with the credited response, "Digging diches because vou need to be there."

Nearly 60% of students gained full credit for this question.

Example of a digital reading task

One task from the PISA 2009 assessment of reading of digital texts, comprising four items, is reproduced in this section. Screen shots are used to illustrate parts of the stimulus relevant to each question. The digital version of this unit and other released tasks are available at www.piss.coech.com.



■ Figure 1.2.47 ■



IWANTTOHELP - OUESTION 1

Situation: Occupational Environment: Message-based Text format: Continuous

Text type: Description Aspect: Access and retrieve – Retrieve information

Question format: Multiple choice

Read Marka's blog entry for January 1. What does the entry say about Marka's expenence of volunteering?

- B. She only volunteers in order to be with her friends.
- C. She has done a little volunteering but would like to do mor
- D. She has tried volunteering but does not think it is worthwhile

Scoring

Full Credit: C. She has done a little volunteering but would like to do more.

Commer

The first page that students see in this unit is the home page of the blog (Life Begins at 16) of a young person named Maila. This page contains two entities from the blog, for Insury 1 and January 6. Although this kind of let often appears on a social networking site, the specific content describes Maila's interest in and plans for doing voluntary work, so this question (and later questions in this unit) are classified as alling within the occupational content.

Filters year old students may not have much experience of volunteering, but the concept is quite concrete, and the text is made accessible by the use of language that is relatively simple and colloqual (Plant a quick port, "(seriously!"), and addressed directly to the audience who may be reading it ("share my New Year's resolution with you," "Now may remember," this arynone between this relative process that the strategy lead to coll networking sites, with four links available within the site ("About," "Contact," "Read my complete profile", "Comments") and one link to an ortental site (wow'i wonthordpages).



This task requires the reader to identify information about Maika's experience of volunteering. Students need to read the short text entry for January 1 in order to locate the answer. It is not necessary to scroll down to see the remainder of the entry for January 6, nor for any other kind of navigation. The second and third sentences of the text give an indication of Maika's desire to work as a volunteer, which discounts option D and guides the reader towards the second part of the key ("would like to do more"). The key is a simple paraphrase of two pieces of information in the following sentence: "... last year I did a couple of short term voluntary jobs ..., but this year I'd like a long-term position ... *. Given the relative prominence of the information in this short text, the direct and relatively simple language, the lack of need to navigate, and the straightforward way in which terms in the question and key to expressions they locate in the text are related, this has all the features of an easy question.

IWANTTOHELP - OUESTION 2

Situation: Educational Environment: Message-based Text format: Multiple

Text type: Description Aspect: Access and retrieve - Retrieve information

Question format: Multiple choice

Go to Marka's "About" page

What kind of work does Marka want to do when she leaves school/

- B. Web design.

Scoring

Full Credit: B. Web design.

Comment

This question also starts on the home page of the blog, but the question directs students to navigate to a second page. Therefore, in contrast to all print reading tasks , the information needed to answer the question cannot be obtained from the material initially presented: the student needs to locate an additional text by clicking on the link. In this instance, selecting the correct link from the five available is easy because there is a literal match between the term in the task and the name of the link ("About"), and because the link is prominent.



8

Once students click on this link, a second text appears, hiding the first text—this is one of the strongest distinctions between print and digital texts. This new text is very brief, containing a small amount of background information about the personal file of the verifier of the bogh (as a be considered as dealing with information of as intil hely to be fairly familiar to most 15-year-olds. There is minor distracting information in option A, with reference to "Photoset" in the text, while open to I is also palauth districts expressed desire to do voluntary work and to make a difference to someone's life. Answering this question relies on making a literal match between the key and one of the terms in the text, "who design". The briefy of the text, its simple language, and the literal matches make this question relatively comprehensible; it appears that the need for one navigation is glady and or all click than the previous question.

IWANTTOHELP - OUESTION 3

Situation: Educational Environment: Authored Text format: Multiple

Text type: Argumentation Aspect: Integrate and Interpret – Form a broad understanding

Question format: Multiple choice

Open the link that Marka refers to in her January 1 post. What is the main function of this website?

- A To encourage people to buy iwanttohelp products.
- B To encourage people to give money to people in need.
- C To explain how you can make money by volunteering.
 - D. To provide people with information about ways to voluntee
- E. To tell people in need where they can find help.

Scoring

Full Credit: D. To provide people with information about ways to volunteer.

Comment

In this task students are required to recognise the main idea of a text, but in order to do this they first need to find the text. In order to view the necessary text, they have to click on a link, as indicated in the task. Only one of the hyperlinks on this page occurs within the holog entry for Innauy 1, so the direction in the task is explicit, but four other finds a malliable on the page act as distactors. Clicking on the correct link tasks the reader not entry to a new page, but also to an entirely new website, the home page for an organisation called inautitohelp. This page opens in a new tab, so that it is possible for students to click on the tab "Makix Slog" if they with in treatm to the first text, although that is not necessary for this six. The content of the new website is more abstanct employing immers that may be relatively unfamiliar to students, such as "non-positif capanisation", "opportunity" and "org", and is addressed to a large announcess andersee rather than operating at the personal level of a blog.





This test is classified as argumentation because it encourages readers to take action, either by contacting other to comparisations ("find an Opportunity Nova") or by making docustations ("five eye loop public docustations) quite for the other part of the website are available on this page, if students wish to explore the site in order to obtain a broader pricture of the organisation. This lowever would be time consuming and inefficiency. Such opportunities always exist for anyone recording material on the Internet, so one feature of reading in this environment is being able to judge, when it is necessary to open mee limits. Thus expanding the number of available some

In this case, in order to answer this broad understanding question, students need to road the short description of the organisation provided in the box on the left of the from page, supported by the prominent question and this above the photograph. It is not possible to make any filteral matches between the task and the key; some relatively flow) level of inference is needed to recognise that this size provides information explaining how people could volunteer. The distances all have some degree of plausibility, because of their references to the invantohelp site, to money and people in need, to counteering, and to spiring information about lefp.

This task is somewhat harder than the previous task, although it is still relatively say. The companite discould include the property of the p

IWANTTOHELP – QUESTION 4

Situation: Educational Environment: Mixed Text format: Multiple Text type: Not specified Aspect: Complex

Question format: Constructed response

Read Maki's blog for January 1. Go to the awanthohelp site and find an opportunity for Makia. Use the e-mail button on the "Opportunity Details" page for this opportunity to tell Makia about it. Explain in the e-mail why the opportunity is suitable for her. Then send your e-mail by clicking on the "Send" button.

Scoring

Full Credit: Selects Graphic Artist or Upway Primary School and writes a message in the e-mail text box with a relevant explanation that matches Maika's criteria.

E-mail message for Graphic Artist

Refers to ongoing position or future or web design or art.

- . You're a great artist and it is ongoing you said you wanted a longer type of work right?
- It's ongoing and it would help you get experience for your future.
- . You are obviously interested in graphic design, and want to pursue this when you finish school, and you would also
- love to volunteer. This would be a great opportunity to do both these things, and will look great on your CV tool.

E-mail message for Upway Primary School

- Refers to ongoing position or making a difference.
- . This would be a good job ongoing and you get to help some kids.
- . Here's a job where you'll really make a difference.

Partial Credit: Selects Graphic Artist or Upway Primary School and writes a message in the e-mail text box with no explanation or an irrelevant explanation.

E-mail message for Graphic Artist

- Gives insufficient or vague answer.
- · You'd like it.

Shows inaccurate comprehension of the opportunity or gives an implausible or irrelevant answer.

- · You'd be working with kids a lot. [Irrelevant, not one of Maika's criteria.]
- . It gives you a chance to get out and about.
- OR



E-mail message for Upway Primary School

Gives insufficient or vague answer.

- You need an hour a week but it sounds like this could be what you're looking for. [Lacks reference to job criteria,
- repeats part of stem.]

 You'd like it.

Shows inaccurate comprehension of the opportunity or gives an implausible or irrelevant answer.

It gives you a chance to get out and about.

Comment

This is an example of a complex task, which involves all three aspects of reading, it also has a substantial manipation requirement. This complexity plinglights a name of differences between paint and digital reading that tasks. The overall task requires students to constant a short e-mail message after integrating and reflicting upon information focus deed in several lasts. The next type has not been specified because the task requires the randor to linearize information from several lasts. The next type has not been specified because the task requires the randor to his plant attacks of the reader to his department of the insantion from several lasts. The set type has not offer specified in the reader to his plant attacks of the reader to the reader to his plant attacks of the reader to t

Beginning with an interpretation of information given on Maila's blog, students are then required to locate a number of pages on the invantibolely website, to evaluate information on these pages in relation to what they have read on the blog, and to use the evaluation to send Maila: a simple message. There is no single pathway for navigation, and two different texts can be used to formulate responses that receive credit. This variability is typical of navigation in the distill environment.

The task requires students to navigate from the starting page, Maika's blog, to the Latest Opportunities page shown below. To see the whole page, scrolling is required.



This page offers four opportunities for students to evaluate on Maika's behalf, each with links providing additional information. Students may open as many of the links as they consider necessary. The page for the Upway Primary School opportunity is shown below.





This text is fairly short, but relatively dense, with quite complex vocabulary ("an innovative approach", "a more diverse population", "foster the academic development", "academic support"). Having located the opportunities, students need to compare descriptions of the opportunities with the criteria given on Maika's blog. They may click on the tab to re-read her entry for lanuary 1, where she refers to wanting "a long-term position" in which she can "make a difference". A broad understanding of the Upway Primary School text would support the evaluation that working here would fit Maika's criteria. This interpretation is supported by expressions such as "The volunteer meets with the student ... for a minimum of one year" and "through academic support, positive role modelling, and a oneto-one friendship, students will succeed".

Some students may also use the link "Read my complete profile" or "About", which refers to her interest in "a future in web design" and to her "artwork". The information here supports the selection of the Graphic Artist opportunity.

Students may use the "Back" and "Forward" buttons, the links on each page and the scroll bar to navigate back and forth between descriptions of various opportunities until they have selected the one that they judge to be most suitable. In each case it is necessary to scroll down to see a full description of the opportunity.

Once students have chosen an opportunity, they need to construct an e-mail message to send to Maika. They do this by opening yet another link, "E-mail opportunity details to a friend", in accordance with the task instructions,



The page where they do this has the e-mail address and subject lines already completed, together with the beginning of a message: "Thought you'd be interested in this volunteer opportunity because...". To receive credit, students must select either the Graphic Artist or the Upway Primary School opportunity. Students who recommend the Graphic Artist opportunity receive full credit if they refer to the fact that this opportunity is an ongoing position; or comment that it is relevant to her future or to her interest in web design or art. Students who recommend Upway Primary School receive full credit if they refer either to the fact that this is an ongoing position or to the idea of making a difference.

Students who select one of these two opportunities but do not write a message that refers to the criteria Maika is seeking nevertheless receive partial credit for having successfully completed much of this complex task: accessing relevant information, comparing information from different texts and making a judgment about which opportunity is suitable.

In summary, in order to obtain full credit for this task, students need to go through a series of processes, involving multiple navigation steps to access a series of texts. Some of the navigation steps are made explicit in the task instructions, but readers need to make multiple evaluations of the available links to decide which ones would allow the most efficient way of completing the task. Students need to make multiple interpretations of texts, from Maika's blog as well as various pages on the iwanttohelp website, and to compare ideas and information across these texts, in support of the reflection and evaluation that the task requires.

3

Notes

- For a full description of the PISA 2009 assessment framework, see OECD (2010c).
- 2. See Stiglitz, I.E., A. Sen and I.P. Fitoussi (2009).
- 3. See OFCD (2010b).
- 4. See OECD (2010a).
- 5. The GDP values represent GDP per capita in 2009 at current prices, adjusted for differences in purchasing power between OECD
- It should be borne in mind, however, that the number of countries involved in this comparison is small and that the trend line is therefore strongly affected by the particular characteristics of the countries included in this comparison.

$$CE = \sum_{i=1}^{2} n(i) * E(i)$$

- B. For this purpose, the respective data were standardised across countries and then averaged over the different aspects.
- 9. For further detail see Butler, J. and R.J. Adams (2007).
- 10. These three aspects also formed the basis of reporting on reading subscales in PSA-2000. The names of the aspects have been modified for PSA-2009 in other to make them applicable to the digital medium as well as to the prime medium, access and retrieves an expanded version of extrieving information; and integrate of interpreting tests. Reflect and evaluation is synonymous with PSA-2000s reflecting upon an explanation.
- 11, Halpern, D.F. (1989): Shetzer, H. and M. Warschauer (2000): Warschauer, M. (1999).
- 12. Kirsch, I. and P.B. Mosenthal (1990).
- 13. For examples of tasks based on the fourth text format, mixed texts, see AFRICAN TREK in OECD (2010c).
- 14. In PISA 2000, PISA 2003 and PISA 2006 these three broad aspects were called "Retrieving information", "Interpreting tests" and "Reflection and evaluation", respectively. The terms have been changed for PISA 2009 to better accommodate the aspects in relation to digital tests.
- 15. A separate digital reading literacy scale has also been constructed: see Volume VI, Students On Line.
- 16. The standard deviation is a measure for the variability of performance. As a rule of thumb, the range between the mean minus one standard deviation and the mean plus one standard deviation or coralins about 70% of the students. The mean plus/minus two standard deviations contains about 9% of students and the mean plus/minus three standard deviations contains 9% of students.
- 17. Confidence level 95%.





A Profile of Student Performance in Mathematics and Science

What can IS-year-old students do in mathematics and scenes? This chapter comments student performance in these two subjects as measured by PSA 2009, it provides examples of assessment questions, relating them to each PSA proficency level, discusses gender difference in student performance, and compares countries mean performance, and As the global demand for highly stilled workers grows, the chapter also highlights todays to performens in reading, mathematics and science.



WHAT STUDENTS CAN DO IN MATHEMATICS

PISA delines multienstical literacy as an individual's capacity to formulate, employ and interpret mathematics in a variety of contexts. This includes reasoning mathematical lyad using mathematical concepts, procedures, facts and tools to describe, explain and predict phenomena. Mathematical literacy also helps individuals recognise the role that mathematics plays in the world and make the well-founded judgements and decisions needed by constructive, empaged and reflective citizens. In the PISA assessments, mathematical literacy is demonstrated through students' ability to analyse, reason and communicate effectively as they pose, solve and interpret mathematical problems that innove quantitative, spatial, probabilistic or other mathematical concepts.

Mathematics was the focus of the PISA 2003 survey, and the mean score on the PISA 2003 mathematics scale was set at 300 for COCC countries at hat point. This mean score is the benchmark against which mathematics was set at 100 for COCC countries and PISA 2006 and PISA 2009 are compared. In PISA 2009, mathematics was given a smaller amount and of assessment time were devoted to mathematics in 2009, allowing for only an update on overall performance rather than the kind of in-depth analysis of knowledge and skills shown in the PISA 2007 sport (PICC) 2009).

A profile of PISA mathematics questions

A selection of sample questions is included in the following section to illustrate the type of tasks students encounter in the PISA mathematics assessment. Each task presented includes the text, as seen by the students. The sample questions described here were released following the implementation of the PISA 2003 survey. A map of these selected questions is shown below in Figure 1.3.1. The selected questions have been ordered according to their difficulty, with the most difficult at the bottom.

■ Figure I.3.1 ■

Map of selected mathematics questions in PISA 2009, illustrating the proficiency levels

Level	Lower score limit	Questions
6	669	CARPENTER - Question 1 (687)
5	607	TEST SCORES - Question 16 (620)
4	545	EXCHANGE RATE - Question 11 (586)
3	482	GROWING UP - Question 7 (525)
2	420	STAIRCASE - Question 2 (421)
1	358	EXCHANGE RATE - Question 9 (406)

Towards the top of the scale, he tasks typically involve a number of different elements, and require high levels of networking the status of secretive date unfamiliar and so require used edges of thought furflection and creativity. Questions generally demand some form of argument, other in the form of an explanation. Typical excitivisies involved include: interpreting complex an unfamiliar date; impossing a mathematical construction on a complex real-world situation; and using mathematical modelling processes. At this level of the scale, questions are under the end to have several elements that make the linked by states, and successes. At this level of the scale, questions a strategic approach to several interrelated steps, for example, Question 1 from CAPENTER (Figure 13.2) presents extractly approach to several interrelated steps, for example, Question 1 from CAPENTER (Figure 13.2) presents understanding and suggrams and the students have to ascertain which of these there could be more than one) would be suitable for a garden bed, given a certain length of timber for the perimeter. The question requires geometrical understanding and application.

Around the middle of the scale, questions require substantial interpretation, frequently of situations that are estaively unfamiliar or unparticles. Students may be required to restate the situation, often in more formal mathematical representations, in order to understand and analyse it. This often involves a chain of reasoning or a sequence of calculations. Students may also be required to express their reasoning through a simple explanation. Typical

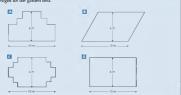
activities include: Interpreting a set of related goaph; interpreting text, relating this to information in a table or gaph, extracting the relevant information and performing some calculations, using scale conversions to calculate distances on a map; and using spatial reasoning and geometric knowledge to perform distance, speed and time calculations. For example, CROWING UP presents students with a graph of the average height of young mailes and young females from the ages of 10 to 20 years. Question 7 from CROWING UP (Figure 1.5.) asks students to identify the period of time when females are on average taller than males of the same age. Students must interpret the graph to understand exactly what is being displayed. They also have to relate the graphs for mules and females to each other and determine how the specified period of time is shown, then accurately read the relevant values from the horizontal scale.

Near the bottom of the scale, questions set in simple and relatively familiar contexts require only the most limited interpretation of a situation and direct application of well-known mathematical concepts. Piyrical activities include: reading a value directly from a graph or table; performing a very simple and straightforward arithmetic calculation; ordering a small set of mathem correctly, contring familiar belepts; using a simple currency exchange rate; and identifying and listing simple combinatorial outcomes. For example, Question 9 from EXCIANCE RATE (aggree 1.57) presents students with a simple rate for converting Singapore dollars SGGI) into South Ariza an and IZAKI, namely 1 SGD = 6.2 ZAKI. The question requires students with a spily the rate to convert 3000 SGGI into Gardine or a familiar equation, and the mathematical size required to direct and reasonable solvies.



■ Figure I.3.2 ■ CARPENTER

A carpenter has 32 metres of timber and wants to make a border around a garden bed. He is considering the following designs for the garden bed.



CARPENTER – QUESTION 1
Content area: Space and shape

Difficulty: 687 •
Percentage of correct answers (OECD countries): 20.2%

Circle either "Yes" or "No" for each design to indicate whether the garden bed can be made with 32 metres of timber.

Garden bed design	Using this design, can the garden bed be made with 32 metres of timber?
Design A	Yes / No
Design B	Yes / No
Design C	Yes / No
Design D	Yes / No

Scoring

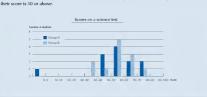
Full Credit: Yes, No, Yes, Yes, in that order.

Comment

This complex multiple choice item is situated in an educational context, since it is the kind of quasi-realistic problem. Hely be seen in a multivancial cost, state than being a genuine problem. Hely be seen in a multivancial cast, state than being a genuine problem. Hely be need in a final translational setting. A small number of such problems have been included in PSA, though they are not pipical. That being said, the complexencian readed for his problem as certainly relevant and part of multivancial literacy. This item illustrates Level 6 with a difficulty of 687 score points. The time belongs to the space and shape content area. The students has peed to complexence to recognise that the two dimensional shapes A.C and DI have the same read. The students are differences. The students are considered and therefore they need to decode the visual information and see similarities and differences. The students eneed to see whether or not a certain breader-shapes can be made with \$2 metres or finites. In this case set his is atther evident because of the exchanging shapes. But the fourth is a pandle-logarun, requiring more than \$2 metres. This use of generated allowage pass that his and some bechnical generated allowage pass this his entangle requested and some passes and some bechnical generated allowage pass this his entangle requested and some bechnical generated and some section of the second of the seco

Figure I,3,3 ■ TEST SCORES

The diagram shows the results on a science test for two groups, labelled as Group A and Group B. The mean score for Group A is 62.0 and the mean for Group B is 64.5. Students pass this test when





Looking at the diagram, the teacher claims that Group B did better than Group A in this test.

The students in Group A don't agree with their teacher. They try to convince the teacher that Group B may not necessarily have done better.

Give one mathematical argument, using the graph that the students in Group A could use.

Comment

This open-constructed response item is situated in an educational context. It has a difficulty of 620 score points. The educational context of this item is one that all students are familiar with: comparing test scores. In this case a science test has been administered to two groups of students: A and B. The results are given to the students in two different ways: in words with some data embedded and by means of two graphs in one grid. Students must find arguments that support the statement that Group A actually did better than Group B, given the counter-argument of one teacher that Group B did better - on the grounds of the higher mean for Group B. The item falls into the content area of uncertainty. Knowledge of this area of mathematics is essential, as data and graphical representations play a major role in the media and in other aspects of daily experiences. The students have a choice of at least three arguments here; the first one is that more students in Group A pass the test: a second one is the distorting effect of the outlier in the results of Group A; and a final argument is that Group A has more students that scored 80 or above. Students who are successful have applied statistical knowledge in a problem situation that is somewhat structured and where the mathematical representation is partially apparent. They need reasoning and insight to interpret and analyse the given information, and they must communicate their reasons and arguments. Therefore the item clearly illustrates Level 5.



Figure I.3.4 ■ **EXCHANGE RATE - Question 11**

Mei-Ling from Singapore was preparing to go to South Africa for 3 months as an exchange student. She needed to change some Singapore dollars (SGD) into South African rand (ZAR).

EXCHANGE RATE - OUESTION 11

Content area: Quantity Difficulty: 586 .

Percentage of correct answers (OECD countries): 40.5%



During these 3 months the exchange rate had changed from 4.2 to 4.0 ZAR per SGD Was it in Mei-Ling's favour that the exchange rate now was 4.0 ZAR instead of 4.2 ZAR, when she changed her South African rand back to Singapore dollars? Give an explanation to support your answer.

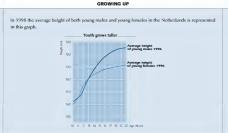
Scoring

Full Credit: Yes, with adequate explanation.

Comment

This open-constructed response item is situated in a public context and has a difficulty of 586 score points. As far as the mathematics content is concerned students need to apply procedural knowledge involving number operations; multiplication and division, which along with the quantitative context, place the item in the quantity area. The competencies needed to solve the problem are not trivial. Students need to reflect on the concept of exchange rate and its consequences in this particular situation. The mathematisation required is of a rather high level, although all the required information is explicitly presented; not only is the identification of the relevant mathematics somewhat complex, but the reduction of it to a problem within the mathematical world also places significant demands on the student. The competency needed to solve this problem can be described as using flexible reasoning and reflection. Explaining the results requires some communication skills as well. The combination of familiar context, complex situation, non-routine problem and the need for reasoning, insight and communication places the item at Level 4.







According to this graph, on average, during which period in their life are females taller than males of the same age?

Scoring

Full Credit: Responses giving the correct interval (from 11 to 13 years) or stating that girls are taller than boys when they are 11 and 12 years old.

Comment

This item, with his focus on age and height, lies in the change and estalonables content area, and has a difficulty of 20 flowed 1). The dutter has a difficulty of 20 flowed 1: The dutter has a difficulty of compared has cherically solve the problem involve the interpretation and elecciding of inestable floating and standard representations of well shown mathematical elegistics. Students need thinking and reasoning competencies to answer the question: "Where do the graphs have common points?" and argumentation and communication competencies to explain the not the bees points play in Inding the desired answer. Students who accordent the they full to come up with a full, comprehensive answer. They properly identify ages 11 and/or 12 and/or 13 as being part of an answer but full to comprehensive answer. They properly identify ages 11 and/or 13 as being part of an answer but full to identify the continuous from 11 to 31 years. The item provides a good illustration of the boundary between Level 1 and Level 2. The full credit response to this item illustrates Level 3, as it has a difficulty of 252 sceep points. Students who score full credit reasons when the problem successfully are adept at using graphical representations, making conducious and communication their findings.





STAIRCASE - QUESTION 2

Content area: Space and shape

Difficulty: 421

Percentage of correct answers (OECD countries): 78.3%

What is the height of each of the 14 steps?

Scoring

Full Credit: 18

Comment

This short open-constructed response item is situated in a daily life content for carpenters and in therefore classified as sharing an occupiational content. It has a difficulty of 215 core points. One does not need to be a carpenter to understand the relevant information; it is clear that an informed citizen should be able to interpret and solve a problem like this that uses two different representation modes. Language, including numbers, and a graphical representation. But the illustration servers a simple and non-essential function students know what stairs look like. This item is noteworthy because if has redundant information the height is 232 cm that is sometimes considered to be confusing by students, but such redundancy is common in oral-world problems solving. The content of the stairs places the time in the space and shape content area, but the schall procedure to carp out is simple division. All the interpretation from any and even more than that is presented in a recognished issuitation, and the students can extract the relevant information from a single source. In essence, the litem makes use of a single representational mode, and with the application of a basic alignmin, this item fits, allegors but here is a single representational mode, and

Figure I.3.7 FEXCHANGE RATE - Question 9

Mei-Ling from Singapore was preparing to go to South Africa for 3 months as an exchange student. She needed to change some Singapore dollars (SGD) into South African rand (ZAR).

Mer-Ling found out that the exchange rate between Singapore dollars and South African rand was: 1 SGD = 4.2 ZAR

Mei-Ling changed 3000 Singapore dollars into South African rand at this exchange rate. How much money in South African rand did Mei-Ling get?

Scoring

Full Credit: 12 600 ZAR (unit not required).

This short open-constructed regionse item is situated in a public context. It has a difficulty of 406 score points, Experience in using exchange rates may not be common to all students, but the concept can be seen as belonging to kills and knowledge for citizenship. The mathematics content is restricted to just one of the four basic operations multiplication. This places the item in the quantity area, and more specifically, in operations with numbers. As far as the competencies are concerned, a very limited form of mathematistation in needed for understanding a simple text and linking the given information to the required calculation. All the required information is explicitly presented. Thus the competency needed to solve this problem can be described as the performance of a resultine procedure and/or application of a standard algorithm. The combination of a familiar context, a clearly defined question and a routine procedure places the time at level 1. 5

4

3

2

358

STUDENT PERFORMANCE IN MATHEMATICS

The six proficiency levels used in mathematics in the PISA 2009 assessment are the same as those established for mathematics in 2003 when it was the major area of assessment. The process used to produce proficiency levels in mathematics is similar to that used to produce proficiency levels in reading, as described in Volume 1, Chapter 2.

■ Figure I.3.8 ■

Summary descriptions for the six levels of proficiency in mathematics Lover | Lover |

well-developed skills and reason flexibly, with some insight, in these contexts. They can construct and communicate explanations and against search agreements based or their interpretations, arguments and actions.

482 At Level 3 students can execute clearly described procedures, including long those that require sequential decisions. They can select and apply simple problem-solving stategies. Students at this level can interpret and use representations based on different information source and reason directly from them. They can develop short the procedure of the control of the contr

communications reporting their interpretations, insuls and measoning.

At Level 2 students can interpret and recognise situations in contents that require no more than direct inference.

They can extent relevant information from a single source and make use of a single representational mode.

Students at this level can employ basic algorithms, formulae, procedures, or conventions. They are capable of direct reasoning and literal interpretations of the results.

At Level 1 students can answer questions involving familiar contexts where all relevant information is present and the questions are clearly defined. They are able to identify information and to carry out routine procedures according to direct instructions in explicit situations. They can perform actions that are obvious and follow immediately from the given stimuli.

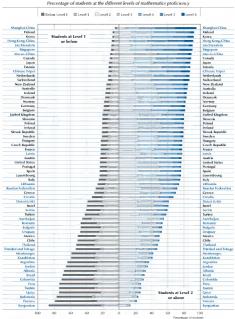
Proficiency at Level 6 (scores higher than 669 points)

Students proficient at level 6 on the mathematics scale can conceptualise, generalise, and utilitie information based on their investigations and modelling of complex problem issulations. They can intile different information owners and representations and flexibly translate them. They are capable of advanced mathematical thinking and reasoning. These students can apply insight and understanding, along with a mastery of symbolic and formal mathematical operations and reliationships, to develop new approaches and studiegies for addressing novel situations. Students at this level can formulate and accurately communicate their actions and reflections regarding their findings, interpretations, arguments, and the appropriateness of these to the given situation.

Across OCCD countries, an average of 3.1% of students perform at Level 6 in mathematics. In Korea and Switzerland, around 8% of students are at this level, and more than 5% of students in Japan, Slegium and New Zochand perform at this level. Among the partner countries and economics, in Shanghai-China, more than one-quarter of students perform at Level 6, while in Singapore, Chinese Jajori and Hong Kong-China the proportion is 13.6%, 11.3% and 10.8%, respectively, in contrast, less than 1% of students in Mexico, Chile, Greece and relardar roats, hevel 6, and in the partner countries Kyngyzstan, Indonesia, Colombia, Jordan, Albania, Tunisia and Fanama, the percentage is close to zero.

3

• Figure 1.3.9 •
How proficient are students in mathematics?



Countries are ranked in descending order of the percentage of students at Levels 2, 3, 4, 5 and 6-Source: OECD, PSA 2009 Database, Table L.3.1. SEALTH #4009-http://doi.org/10.1181/9869539532

Proficiency at Level 5 (scores higher than 607 but lower than or equal to 669 points)

Students proficient at Level 5 can develop and work with models in complex situations, identifying constraints and specifying assumptions. They can select, compare, and evaluate appropriate problem-solving strategies for dealing with complex problems related to these models. Students at this level can work strategically using broad, welldeveloped thinking and reasoning skills, appropriately linked representations, symbolic and formal characterisations, and insight pertaining to these situations.

Across OECD countries, an average of 12.7% of students are proficient at Level 5 or higher (Figure 1.3.9 and Table 1.3.1). Korea is the OECD country with the highest percentage of students - 25.6% - at Level 5 or 6. Switzerland, Finland, Japan and Belgium have more than 20% of students at these levels, while in the partner countries and economies Singapore, Hong Kong-China and Chinese Taipei, the percentage of students at these levels is 35.6%, 30.7% and 28.6%, respectively, and in Shanghai-China, more than half of all students perform at least at Level 5. With the exception of Chile and Mexico, more than 5% of students in every OECD country reach at least Level 5.

Proficiency at Level 4 (scores higher than 545 but lower than or equal to 607 points)

Students proficient at Level 4 can work effectively with explicit models for complex concrete situations that may involve constraints or call for making assumptions. They can select and integrate different representations, including symbolic representations, and link them directly to aspects of real-world situations. Students at this level can use well-developed skills and reason flexibly, with some insight, in these contexts.

Across OECD countries, an average of 31.6% of students are proficient at Level 4 or higher (that is, at Level 4, 5 or 6) (Figure 1,3.9 and Table 1,3.1). In Korea and the partner countries and economies Shanghai-China, Singapore, Hong Kong-China and Chinese Taipei, the majority of students perform at this level. In Finland, Switzerland, Japan, the Netherlands, Canada, Belgium, and New Zealand, and the partner countries and economies Liechtenstein and Macao-China, more than 40% do so. However, in Mexico, Chile, Turkey, Israel and Greece, and in the majority of the partner countries and economies, less than one-quarter of students attain at least Level 4.

Proficiency of Level 3 (scores higher than 482 but lower than or equal to 545 points)

Students proficient at Level 3 can execute clearly described procedures, including those that require sequential decisions. They can select and apply simple problem-solving strategies and can interpret and use representations based on different information sources. They can communicate their interpretations, results and reasoning succinctly.

Across OECD countries, an average of 56.0% of students are proficient at Level 3 or higher (that is, at Level 3, 4, 5 or 6) (Figure 1.3.9 and Table 1.3.1). In the OECD countries Finland and Korea, and the partner countries and economies Shanghai-China, Hong Kong-China, Singapore and Liechtenstein, over three-quarters of 15-year-olds are proficient at Level 3 or higher, and at least two-thirds of students attain this level in the OECD countries Switzerland, Japan, Canada and the Netherlands and the partner economies Chinese Taipei and Macao-China.

Proficiency at Level 2 (scores higher than 420 but lower than or equal to 482 points)

Students proficient at Level 2 can interpret and recognise situations in contexts that require no more than direct inference. They can extract relevant information from a single source and make use of a single representational mode. Students at this level can employ basic algorithms, formulae, procedures or conventions. They are capable of direct reasoning and making literal interpretations of the results. Level 2 represents a baseline level of mathematics proficiency on the PISA scale at which students begin to demonstrate the kind of skills that enable them to use mathematics in ways that are considered fundamental for their future development.

Across OECD countries, an average of 78.0% of students are proficient at Level 2 or higher. In Finland and Korea, and in the partner countries and economies Shanghai-China, Hong Kong-China, Liechtenstein and Singapore, more than 90% of students perform at or above this threshold. In every OECD country except Chile, Mexico, Turkey, Israel and Greece, at least three-quarters of students are at Level 2 or above, and in Chile and Mexico more than half of all students are below Level 2 (Figure 1.3.9 and Table 1.3.1).

Proficiency at Level 1 (scores higher than 358 but lower than or equal to 420 points) or below

Students proficient at Level 1 can answer questions involving familiar contexts where all relevant information is present and the questions are clearly defined. They are able to identify information and to carry out routine procedures according to direct instructions in explicit situations. They can perform obvious actions that follow immediately from the given stimuli.

Students performing below 358 score points – that is, below Level 1 – usually do not succeed at the most basic mathematical tasks that PISA measures. Their pattern of answers is such that they would be expected to solve fewer than half of the tasks in a test made up of questions driften solely from Level 1. Such students are likely to have serious difficulties using mathematics to benefit from further education and learning opportunities throughout like.

Across OECD countries, an average of 14.0% of students perform at Level 1, and 8.0% perform below Level 1, but there are wide differences between countries. In Finland and Korea, and in the partner countries and economies Shanghai-China, Hong Kong-China, Licherhesine and Singopore, less than 10% of students perform at or below Level 1. In all other OECD countries, the percentage of students performing at or below Level 1 ranges from 11.5% in Canada to 51.0% in Chile Figure 23.9 and Table 1.3.1.

Mean country performance in mathematics

The discussion above has focused on comparisons of the distributions of student performance between countries. Another way to surpare the relative between the called the student of the contribution of the

When interpreting mean performance, only those differences between countries that are statistically significant should be taken into account. Figure 17.01 shows each country's mean score and also for which pair of countries the differences between the means shown are statistically significant. For each country shown on the left in the differences between the means statistically significant for each country shown on the left in the differences between the state of the state of the significantly different. For all other cases, one country has a higher performance than another if it is above it in the left in the middle column, and two performance it is below it. For example: Stanghaid-Tilan andas first, Singapore second and Hong Kong-China third, but the performance of Koroa, which appears fourth on the list, cannot be distinguished with confidence from that of Chines Lipsi.

Korea, with a country mean of 34s score points in mathematics, is the highest performing OEO country. Three partner countries and economics, Shanghai-Cline, Singapore and Hong Kong-Clinia, Nava a mean score that is acuted one proficiency level or more above the average of 49s score points in PSA 2009. Other OEO countries with mean (526), New Zealand (519), Belgium G15, Australa G14, Germany (511), Estonia G12), Eckland G070, Domnark, G160) and Schrach G171, Bergiam G15, Australa G14, Cermany (511), Estonia G12), Eckland G070, Domnark, G160) and Skowani G171, Bergiam Ceru countries and economies perform above the average: Chines Epide G143, Bergiam G15, Australa G14, Cermany G131, Estonia G12), Estonia G172, Estonia G172, Estonia G172, Estonia G173, Estonia G173,

Among OECD countries, performance differences are large; 128 score points separate the mean scores of the highest and lowest performing OECD countries, and when the partner countries and economies are considered along with the OECD countries, this range amounts to 269 score points.

Because the figures are derived from samples, it is not possible to determine a precise rank of the performance of a country among the participating countries. It is, however, possible to determine, with confidence, a range of ranks in which the country's performance level lies (Figure 1.3.11).

The performance range between the highest- and lowest-performing students is shown in Table 1.3.3. Finland, which is one of the highest-performing (CCU countries, bows one of the narrowest distributions between the 5th percentile, the point on the PSA mathematics scale which the 5% lowest-performing students attain, and the 95th percentile, the point which 55% of the best-performing students attain, with a difference equalwent to 270 score points. Among the partner countries and economies, some of the lowes-performing countries, such as intended and furnish, have a narrow distribution, ranging from 23th to 275 score points. Among the partner countries and economies, Singapore, Chinese Taipel and Shanghai-China have the largest differences in the third of the highest performance in mathematics in the OCIO area, local fieldjure, switzerland, Fatance, Lumenhourg and Germany also show a wide performance range. In Issael and Belgium, this partly reflects the performance



■ Figure 1.3.10 ■

Comparing countries' performance in mathematics

Statistically significantly above the OECD average Not statistically significantly different from the OECD average Statistically significantly below the OECD average Comparison country Countries whose mean score is NOT statistically significantly different from that of the comparison country Singapore Hong Kong-China Hong Kong-China, Chinese Taipei, Finland, Liechtenstein 546 Korea Enland Korea, Chinese Taipes, Liochtenstein, Switzerland Liechtenstwe Korea, Chinese Taipei, Finland, Switzerland, Japan, Netherland 534 Switzerland Chinese Taipei, Finland, Liechtenstein, Japan, Canada, Netherlands 529 Japan 527 Canada Liechterstein, Switzerland, Canada, Netherlands, Macao-China Switzerland, Japan, Netherlands, Macao-China Netherlands Lechterstein, Switzerland, Japan, Canada, Maczo-China, New Zeoland 525 Macao-China New Zealand Netherlands, Belgium, Australia, Germany Relgium Australia New Zeeland, Belgium, Germany, Estonia New Zeoland, Belgium, Australia, Estonia, Iceland 513 Cernany Belgium, Australia, Cermany, Iceland Estonat Cermony, Evineus, Denmark Iceland, Slovenio, Norway, France, Slovak Republic Denmark Slovenia Dermark, Norway France, Stock Republic, Austria
Dermark, Stowers, France, Stock Republic, Austria, Poland, Sweden, Czech Republic, United Kinedom, Hantony Nonezy France Denmark, Slovense, Norway, Slovek Republic, Apstria, Poland, Sweden, Czech Republic, United Kingdom, Hungary Slovak Require Dermark, Slovensa, Norway, Francis, Awstria, Poland, Sweden, Casich Republic, United Kingdom, Hungary Slovense, Norway France, Slovak Republic, Paland, Sweden, Casch Republic, United Kingdom, Hungary United Norway, France, Slovak Republic, Austria, Foland, Czech Republic, Linted Kingdom, Hungary, Luxembourg, Linted States, Iroland, Portug United Kingdom Hungary Lucembourg Poland, Sweden, Czech Republic, United Kingdom, Hungary, United States, Indiand, Portugal United States Austria, Poland, Sweden, Crech Republic, Linited Kingdom, Hungary, Leasembourg, Indaed, Fortagol, Spain, Italy, Latvie 487 Ireland 487 Portugal Sweden, Casch Republic, United Knigdom, Hungary, Lasembourg, United States, Portugal, Spain, Bally, Latvia Poland, Sweden, Czech Republic, United Kingdom, Hungary, banamboury, United States, Indiand, Spean, Buly, Lab Spain Hungary, United States, Instand, Portugal, Italy, Eutria Italy Yangary, Unified Status, Indiand, Portugal, Spain, Labour Hungary, United States, Insland, Portugal, Spain, Baly, Lithuania Liftures Russian Federation, Croatia Israel, Tarkey Dubar (UAE), Tarkey, Serbar Turkey Bulgana, Romania, Uruguay Azerbaijan, Bulgaria, Uruguzy, Chile, Thailand Urugusy Chile Bulgana, Romania, Uruguay, Thailand, Mexico Messon Thailand Kazaldistan Jordan, Brazil, Colombia, Alberia Argentina, Brazil, Colombia, Albania Asymina, Junian, Bearl, Albania, Indonesia Albama Argentina, Jordan, Brazel, Colombia, Turnia, Indonesia Colombia, Albania, Turraa, Qatar, Rusu, Par Tunkia, Indonesia, Peru, Rimama

Source: OECD, PISA 2009 Distribuse. Station and http://dx.doi.org/10.1787/888932343152



■ Figure I.3.11 ■ Where countries rank in mathematics performance

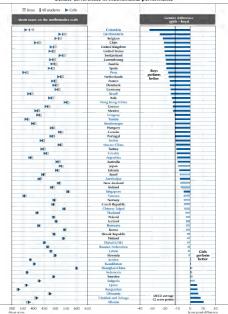
Statistically significantly above the OECD average Not statistically significantly different from the OECD average

Sonstically significantly below the OECD average

	Not statistically significantly inflerent from the OECD average Sourceally significantly below the OECD average					
	The Part of the Pa	-	Mathematics			
			Range of rank			
		S.E.	OECD countries All countries/aconomies			
	Mean Score		Upper raek	Lower rank	Upper rank	Lower rank
Shangha-China	600	(2.8)			1	1
5 и gapore	562	(1.4)			2	2
Hong Kong-China	555	(2.7)			3	- 4
Korea	546 543	(4.0)	1	2	3 4	
Chinese Taipei Finland	543	6.0	1	- 1	- 1	7
Lechtemten	536	(6.1)		3	1 1	9
iwiteerland	534	(3.3)	2	4	6	9
apan	529	(3.3)	3	6	8	12
anada anada	527	0.0	4		9	12
Notherlands	526	(4.7)	1	7	8	13
Macao-China	525	(0.9)	_		10	12
New Zealand	519	(2.3)	6	8	12	14
Selgium	515	(2.3)	7	- 11	13	17
Supiralia.	514	(2.5)	7		13	
Sermany	513	(2.9)	8	12	13	17
stoma	512	(2.4)	8	11	14	17
celand	507	(1.4)	11	13	17	19
Denmark	503	(2.6)	12	16	18	
Hoveria	501	0.20	13	15	19	21
Norway	458	(2.0)	131	20	184	26
rance	497	(B1)	35	22		28
Hovak Republic	497	(8.1)	8	22	19	28
Vestria	496	(27)	H	22	26	28
oland	495	(2.8)	15	24	21	29
iweden	494	(2.9)	15	24	21	30
zech Republic	493	(2-8)	16	25	22	31
Insted Kingdom	492	(2.4)	17	25	23	31
tungary	490	(3.5)	18	28	23	34
amembourg	489	(1.2)	22	26	28	33
Insted States	487	(3.6)	21	29	26	36
reland	487	(2.5)	22	29	28	35
Portugal	487	(2.9)	22	29	28	36
pain	483	(2,1)	26	29	32	36
taly	483	(1,5)	26	29	32	36
atvia	482	(3.1)			3.2	37
ithuania	477	(2.6)			36	38
Russian Federation	465	(2-3)			3.5	39
Sirecce	466	(3.9)	30	30	38	40
roatia	460	(3-1)			39	40
Dubai (UAE)	453	(1.1)			- 61	42
seact	447	(3.3)	31	32	42	44
lurkey	445	(4.4)	31	32	41	44
iertea	442	(2.9)			42	46
kzerbarjan	431	(2.6)			45	47
tulgana	428	(5-9)			45	51
iomania	427	3.9			45	49
Ineguay	427	(2.6)			45	49
Thile Thailand	421 419	(3.1)	33	34	47	51 52
		(3,2)				
Medico	419	(1.8)	33	34	49	51
nredad and Tobogo azakhstan	414	(1.3)			51	52 54
ACARDON III	405 403	(3.0)			53	56
Montenegro	403				53	56
rgentina	388	(4.1)			55	58 58
ordan		(3-7)				
krazal	386	2.9			55	58
olombia	381	(3.2)			56	59
Vibaria	377	(4.0)			57	61
lensaz	371	(3-0)			59	63
ndonesia	371	(3.7)			59	63
John	365	(0.7)			61	63
Peru	365	(4.0)			61	60
Panama	360	(5-2)			62	64
Kyrgyzstan		(2.5)	The second second		65	- 65 -

Source OECD, PISA 2009 Database Statistics (ago: http://dx.doi.org/10.1787/888932343132

■ Figure L3.12 ■ Gender differences in mathematics performance



Note: Statistically significant gender differences are marked in a darker tone (see Annex A3). Countries are ranked in ascending order of the gender score point difference (girls - boys)-Source: OECD, PISA 2009 Database, Table 1.3 3. StatLink 42050 https://dx.doi.org/10.1787/888932343152

Gender differences in mathematics

On average across OECD countries, boys outperformed girls, with an advantage of 12 score points.

Of all 65 participating countries there are 35 countries with an advantage for boys and 5 with an advantage for girls. For the countries with an advantage for boys on the mathematics scale, gender differences vary widely, even if they tend to be much smaller than corresponding gender differences scale on the reading scale. The largest gender differences are observed in Belgium, Chile, the United Kingdom and the United States, with an advantage of 20 zocore points on more for boys and adfirences of 23 and 24 score points, respectively, in the partner countries and economies Colombia and Lechtenstein, Japan, New Zealand, Ireland, Norway, the Czech Republic, Foland, Ischand, Korea, the Stowker, as well as the partner countries and economies Colombia and Lechtenstein, Japan, New Zealand, Ireland, Norway, the Czech Republic, Foland, Roman, Othnew Tajeel, Thalland, Stownian and Sweden, as well as the partner countries and economies Stampái-Chine, Indonesia and Bulgarida do not show measuable differences between the score for boys and girls. In the partner countries and economies Quta, Kyngzstan, Lithuania, Tinidad and Tobago and Albania, girls outperformed boys in mathematics by between 5 and 11 score points (Table 1.3) mathematics by between 5 and 11 score points (Table 1.3).

WHAT STUDENTS CAN DO IN SCIENCE

An understanding of science and technology is cortal to a young person's preparedness for life in modern society. This understanding also empowers individuals to participate in determining public policy where issues of science and technology affect their lives. PISA defines scientific filteracy as an individual's scientific knowledge, and use of that knowledge, is clearly questions, exquite new knowledge, explaint scientific phenomena and draw evidence-based conclusions about science-related issues; their understanding of the characteristic features of science as a aform of humans knowledge and empiricy their awareness of how science and technology shape cur material, intellectual and cultural environments; and their willingness to engage in science-related issues, and with the ideas of science, as a reflective citizen.

PBA commises both the cognitive and affective aspects of students' compotencies in science. The cognitive aspects include students' knowledge and categority to use this knowledge effectively, as they carry out creatin cognitive processes that are characteristic of science and scientific enquiries of personal, social, or global relevance. Science was the focus of the PBA 2006 survey and the PBA 2006 science mean score for OEC countries was set at 498 then GDO in PBA 2006 with the 30 OECD countries, but 498 after taking into account the 4 new OECD countries. This mean score is the benchmark for such comparisons in the fature. However, in PBA 2009, science was given a smaller amount the benchmark for such comparisons in the fature. However, in PBA 2009, science was given a smaller amount of assessment time what in in PBA 2006. Nively minutes of the assessment time were devoid to science in 2009, allowing for only an update on overall performance rather than the kind of lin-depth analysis of knowledge and skills shown in the PBAS 2006 report (OECD, CODY). The average score is science in PBA 2009 is set at 318.

A profile of PISA science questions

Figure 1.3.1 shows a map of a selection of PSA science questions and scores (in parentheses) to illustrate broadly of what is required at different difficulty levels. The sample questions described in the following section were released following the implementation of the PSA 2006 survey. The exicted questions have been ordered according to their difficulty, with the most difficult at the bottom of difficult at the shoot and difficult at the bottom.

Figure I.3.13

Map of selected science questions in PISA 2009, illustrating the proficiency levels

Level	Lower score limit	Questions
6	708	GREENHOUSE - Question 5 (709)
	633	GREENHOUSE - Question 4.2 (659) (full credit)
4	559	CLOTHES - Question 1 (567)
3	484	MARY MONTAGU - Question 4 (507)
2	409	GENETICALLY MODIFIED CROPS - Question 3 (421)
1	335	PHYSICAL EXERCISE - Question 3 (386)

Factors that determine the difficulty of questions assessing science performance include: the level of familiarity of the scientific ideas, processes and terminology involved; the length of the train of logic required to respond to a question, that is, the number of steps needed to arrive at an adequate response and how much one step depends on the previous one; the degree to which abstract scientific ideas or concepts are required in forming a response; and the level of reasoning, insight and generalisation involved in forming judgements, conclusions and explanations.

Typical questions near the top of the scale involve interpreting complex and unfamiliar data, imposing a scientific explanation on a complex real-world situation, and applying scientific processes to unfamiliar problems. At this part of the scale, questions tend to have several scientific or technological elements that need to be linked by students, requiring several interrelated steps. The construction of evidence-based arguments also requires critical thinking and abstract reasoning, Question 5 from GREENHOUSE (Figure 1,3,14) is an example of Level 6 and of the competency to explain phenomena scientifically. In this question, students must analyse a conclusion to account for other factors that could influence the greenhouse effect. As a first step to solving this problem, the student must be able to identify the change and measured variables and have sufficient understanding of the methods of investigation to recognise the influence of other factors. In addition, the student needs to recognise the scenario and identify its major components. This involves identifying a number of abstract concepts and their relationships in order to determine what "other" factors might affect the relationship between Earth's temperature and the amount of carbon dioxide emissions in the atmosphere. Thus, in order to respond correctly, a student must understand the need to control factors outside the changed and measured variables and must possess sufficient knowledge of "Earth systems" to identify at least one of the factors that should be controlled. Sufficient knowledge of "Earth systems" is considered the critical scientific skill involved, so this question is categorised as explaining phenomena scientifically.

Around the middle of the scale, questions require substantially more interpretation, frequently in situations that are relatively unfamiliar. Sometimes they demand the use of knowledge from different scientific disciplines, including more formal scientific or technological representation, and the thoughtful synthesis of those disciplines in order to promote understanding and facilitate analysis. Sometimes they involve a chain of reasoning and require students to express their reasoning in a simple explanation. Typical activities include interpreting aspects of a scientific investigation, explaining certain procedures used in an experiment and providing evidence-based reasons for a recommendation. An example of a question in the middle of the scale is Question 4 from MARY MONTAGU (Figure 1.3.16). This question requires the student to identify why young children and old people are more at risk of the effects of influenza than others in the population. Directly, or by inference, the reason is attributed to the weaker immune systems among young children and old people. The issue is community control of disease, so the setting is social. A correct explanation involves applying several pieces of knowledge that are well established in the community. The question stem also provides a clue to the groups' different levels of resistance to disease.

On the bottom of the scale, questions require less scientific knowledge and are applied in familiar contexts, with easy scientific explanations that arise directly from given evidence. Question 3 of PHYSICAL EXERCISE (Figure 1.3.18) is an example of an easy question, located at Level 1 on the PISA science scale below the baseline of scientific literacy. To gain credit, a student must recall knowledge about the operation of muscles and formation of fat in the body correctly, particularly the facts that when muscles are exercised they receive an increased flow of blood and fats are not formed. This knowledge enables students to accept the first statement of this complex multiple-choice question and reject the second one. In this question, no context needs to be analysed: the knowledge required has widespread currency and no relationships need to be investigated or established.



■ Figure I.3.14 ■ GREENHOUSE

THE GREENHOUSE EFFECT: FACT OR FICTION?

Living things need energy to survive. The energy that sustains life on the Earth comes from the Sun, which radiates energy into space because it is so hot. A tiny proportion of this energy reaches the Earth.

The Earth's atmosphere acts like a protective blanket over the surface of our planet, preventing the variations in temperature that would exist in an airless world.

Most of the radiated energy coming from the Sun passes through the Earth's atmosphere. The Earth absorbs some of this energy, and some is reflected back from the Earth's surface. Part of this reflected energy is absorbed by the atmosphere.

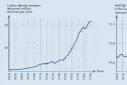
As a result of this the average temperature above the Earth's surface is higher than it would be if there were no

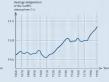
atmosphere. The Earth's atmosphere has the same effect as a greenhouse, hence the term greenhouse effect. The greenhouse effect is said to have become more pronounced during the twentieth century.

It is a fact that the average temperature of the Earth's atmosphere has increased. In newspapers and periodicals the increased carbon dioxide emission is often stated as the main source of the temperature rise in the twentieth century.

A student named André becomes interested in the possible relationship between the average temperature of the Earth's atmosphere and the carbon dioxide emission on the Earth.

In a library he comes across the following two graphs.





André concludes from these two graphs that it is certain that the increase in the average temperature of the Earth's atmosphere is due to the increase in the carbon dioxide emission.

GREENHOUSE - OUESTION 4

Ouestion type: Open-constructed response

Competency: Using scientific evidence

Knowledge category: "Scientific explanations" (knowledge about science) Application area: "Environment"

Setting: Global

Difficulty: Full credit 659; Partial credit 568 .

Percentage of correct answers (OECD countries): 34 5%



Another student, Jeanne, disagrees with André's conclusion. She compares the two graphs and says that some parts of the graphs do not support his conclusion.

Give an example of a part of the graphs that does not support André's conclusion. Explain your answer.

Scoring

Full Credit:

Refers to one particular part of the graphs in which the curves are not both descending or both climbing and gives the corresponding explanation. For example:

- In 1900–1910 (about) CO. was increasing, whilst the temperature was going down.
- In 1980–1983 carbon dioxide went down and the temperature rose.
- . The temperature in the 1800s is much the same but the first graph keeps climbing.
- . Between 1950 and 1980 the temperature didn't increase but the CO, did.
- . From 1940 until 1975 the temperature stays about the same but the carbon dioxide emission shows a sharp rise.
- . In 1940 the temperature is a lot higher than in 1920 and they have similar carbon dioxide emissions.

Partial Credit-

- Mentions a correct period, without any explanation. For example:
 - 1930-1933. before 1910.

Mentions only one particular year (not a period of time), with an acceptable explanation. For example:

. In 1980 the emissions were down but the temperature still rose.

Gives an example that doesn't support André's conclusion but makes a mistake in mentioning the period. [Note: There should be evidence of this mistake - e.g. an area clearly illustrating a correct answer is marked on the graph and then a mistake made in transferring this information to the text.) For example:

Between 1950 and 1960 the temperature decreased and the carbon dioxide emission increased.

Refers to differences between the two curves, without mentioning a specific period. For example:

- · At some places the temperature rises even if the emission decreases.
- . Earlier there was little emission but nevertheless high temperature.
- . When there is a steady increase in graph 1, there isn't an increase in graph 2, it stays constant. [Note: It stays constant "overall".1
- Because at the start the temperature is still high where the carbon dioxide was very low.

Refers to an irregularity in one of the graphs. For example:

- It is about 1910 when the temperature had dropped and went on for a certain period of time.
- In the second graph there is a decrease in temperature of the Earth's atmosphere just before 1910.

Indicates difference in the graphs, but explanation is poor. For example:

. In the 1940s the heat was very high but the carbon dioxide very low. [Note: The explanation is very poor, but the difference that is indicated is clear.)

Comment

Another example from GREENHOUSE centres on the competency using scientific evidence and asks students to identify a portion of a graph that does not provide evidence supporting a conclusion. This question requires the student to look for specific differences that vary from positively correlated general trends in these two graphical datasets. Students must locate a portion where curves are not both ascending or descending and provide this finding as part of a justification for a conclusion. As a consequence it involves a greater amount of insight and analytical skill than is required for Question 3. Rather than a generalisation about the relation between the graphs, the student is asked to accompany the nominated period of difference with an explanation of that difference in order to gain full credit.

The ability to effectively compare the detail of two datasets and give a critique of a given conclusion locates the full credit question at Level 5 of the scientific literacy scale. If the student understands what the question requires of them and correctly identifies a difference in the two graphs, but is unable to explain this difference, the student gains partial credit for the question and is identified at Level 4 of the scientific literacy scale.

This environmental issue is global which defines the setting. The skill required by students is to interpret data graphically presented so the question belongs in the "Scientific explanations" category.

17

GREENHOUSE - QUESTION 5

- - - - - -

Question type: Open-constructed response

Competency: Explaining phenomena scientifically

Knowledge category: "Earth and scace systems" (knowledge of science)

Application area: "Environment" Setting: Global

Setting: Global Difficulty: 709 •

Percentage of correct answers (OECD countries): 18.9%



André persuts in his conclusion that the average temperature rise of the Earth's atmosphere is caused by the increase in the carbon disorde emission. But Jeanne thinks that his conclusion is premature. She says: "Refore accepting this conclusion you must be sure that other factors that could influence the greenhouse effect are

Name and of the Green that the

Scoring

Full Credit:

Gives a factor referring to the energy/radiation coming from the Sun. For example:

- . The sun heating and maybe the earth changing position.
- Energy reflected back from Earth. [Assuming that by "Earth" the student means "the ground".]

Gives a factor referring to a natural component or a potential pollutant. For example:

- · Water vapour in the air.
- Clouds.
- . The things such as volcanic eruptions.
- Atmospheric pollution (gas, fuel).
- The amount of exhaust gas.
- CEC's
- . The number of cars
- . Ozone (as a component of air). [Note: for references to depletion, use Code 03.]

Comment

Question 5 of CREENFIOUSE is an example of Leve 16 and of the competency explaining phenomena scientifically, in this question, industrien must analyse a conclusion to account for other factors that could influence the general particular effect. This question combines supects of the two competencies identifying scientific issues and explaining phenomena scientifically. The adult must be proceed or controlling factors outside the change and measured variables and to recognise those variables. The student must possess sufficient knowledge of Tarth systems' to be able to identify at least one of the factors that should be controlled. The fatter criterion is considered the critical scientific skill involved so this question is categorised as explaining phenomena scientifically. The effects of this environmental Issue are global, which defines the setting.

As a first step in gaining credit for this question the student must be able to identify the change and measured variables and have untilined understanding of methods of investigation to recognize the influence of other factors. Flowever, the student also needs to recognize the security in context and identify its major components. This immoves a number of abstanct concepts and their relationships in determining what 'clather' factor might affect the relationship between the Earth's immograture and the amount of carbon disorder emissions into the atmosphere. This forestimates the production may be able to the production of the control of the design of the design of the design of the design of the control of the design of



■ Figure 1,3,15 ■ CLOTHES

CLOTHES TEXT

A team of British scientists is developing "intelligent" clothes that will give disabled children the power of "speech". Children wearing waistcoats made of a unique electrotextile, linked to a speech synthesiser, will be able to make themselves understood simply by tapping on the touch-sensitive material.

The material is made up of normal cloth and an ingenious mesh of carbon-impregnated fibres that can conduct electricity. When pressure is applied to the fabric, the pattern of signals that passes through the conducting fibres is altered and a computer chip can work out where the cloth has been touched. It then can trigger whatever electronic device is attached to it, which could be no bigger than two boxes of matches,

"The smart bit is in how we weave the fabric and how we send signals through it - and we can weave it into existing fabric designs so you cannot see it's in there," says one of the scientists.

Without being damaged, the material can be washed, wrapped around objects or scrunched up. The scientist also claims it can be mass-produced cheaply.

Source; Steve Farrer, "Interactive fabric promises a material gift of the garb", The Australian, 10 August 1998,

CLOTHES - OUESTION 1

Question type: Complex multiple choice Competency: Identifying scientific issues Knowledge category: "Scientific enquiry" (knowledge about science) Application area: "Frontiers of science and technology" Setting: Social Difficulty: 567 * Percentage of correct answers (OFCD countries): 47.9%



Can these claims made in the article be tested through scientific investigation in the laboratory? Circle either "Yes" or "No" for each

The material can be	Can the claim be tested through scientific investigation in the laboratory?
washed without being damaged.	Yes / No
wrapped around objects without being damaged.	Yes / No
scrunched up without being damaged	Yes / No
mass-produced cheaply.	Yes / No

Scoring

Full Credit: Yes, Yes, Yes, No. in that order.

Comment

The question requires the student to identify the change and measured variables associated with testing a claim about the clothing. It also involves an assessment of whether there are techniques to quantify the measured variable and whether other variables can be controlled. This process then needs to be accurately applied for all four claims. The issue of "intelligent" clothes is in the category "Frontiers of science and technology" and is a community issue addressing a need for disabled children so the setting is social. The scientific skills applied are concerned with the nature of investigation which places the question in the "Scientific enquiry" category:

The need to identify change and measured variables, together with an appreciation of what would be involved in carrying out measurement and controlling variables, locates the question at Level 4.

■ Figure 1,3,16 ■ MARY MONTAGU

Read the following newspaper article and answer the questions that follow

THE HISTORY OF VACCINATION Mary Montagu was a beautiful woman. She survived an attack of smallpox in 1715 but she was left covered with scars. While living in Turkey in 1717, she observed a method called inoculation that was commonly used there. This treatment involved scratching a weak type of smallpox virus into the skin of healthy young people who then became sick, but in most cases only with a mild form of the disease

Mary Montagu was so convinced of the safety of these inoculations that she allowed her son and daughter to be inoculated.

In 1796, Edward Jenner used inoculations of a related disease, cowpox, to produce antibodies against smallpox. Compared with the inoculation of smallpox, this treatment had less side effects and the treated person could not infect others. The treatment became known as vaccination.

MARY MONTAGU - OUESTION 2

Question type: Multiple choice

Competency: Explaining phenomena scientifically Knowledge category: "Living systems" (knowledge of science)

Application area: "Health"

Setting: Social Difficulty: 436 .

Percentage of correct answers (OECD countries): 74.9%

What kinds of diseases can people be vaccinated against?

A. Inherited diseases like haemoobilia

B. Diseases that are caused by viruses, like polio.

C. Diseases from the malfunctioning of the body, like diabetes

D. Any sort of disease that has no cure.

Scoring

Full Credit: B. Diseases that are caused by viruses, like polio.

Comment

To gain credit the student must recall a specific piece of knowledge that vaccination helps prevent diseases, the cause for which is external to normal body components. This fact is then applied in the selection of the correct explanation and the rejection of other explanations. The term "virus" appears in the stimulus text and provides a hint for students. This lowered the difficulty of the question. Recalling an appropriate, tangible scientific fact and its application in a relatively simple context locates the question at Level 2.

MARY MONTAGU - OUESTION 3

Question type: Multiple choice

Competency: Explaining phenomena scientifically Knowledge category: "Living systems" (knowledge of science)

Application area: "Health" Setting: Social

Difficulty: 431 .

Percentage of correct answers (OECD countries): 75.1%





If animals or humans become sick with an infectious bacterial disease and then recover, the type of bacteria that caused the disease does not usually make them sick again

What is the reason for this?

A. The body has killed all bacteria that may cause the same kind of disease.

- B The body has made antibodies that kill this type of bacteria before they multiply.

Scoring

Full Credit: B. The body has made antibodies that kill this type of bacteria before they multiply.

Comment

To correctly answer this question the student must recall that the body produces antibodies that attack foreign bacteria, the cause of bacterial disease. Its application involves the further knowledge that these antibodies provide resistance to subsequent infections of the same bacteria. The issue is community control of disease, so the setting is social.

In selecting the appropriate explanation the student is recalling a tangible scientific fact and applying it in a relatively simple context. Consequently, the question is located at Level 2.



Scoring

Full Credit: Responses referring to young and/or old people having weaker immune systems than other people, or similar. For example:

These people have less resistance to getting sick. The young and old can't fight off disease as easily as others

They are more likely to catch the flu.

If they get the flu the effects are worse in these people.

Because organisms of young children and older people are weaker.

Old people get sick more easily.

Comment

This question requires the student to identify why young children and old people are more at risk of the effects of influenza than others in the population. Directly, or by inference, the reason is attributed to young children and old people having weaker immune systems. The issue is community control of disease, so the setting is social.

A correct explanation involves applying several pieces of knowledge that are well established in the community. The question stem also provides a cue to the groups having different resistance to disease. This puts the question at Level 3.

Figure I.3.17 = GENETICALLY MODIFIED CROPS

GM CORN SHOULD BE BANNED

Wildlife conservation groups are demanding that a new genetically modified (GM) corn be banned

This GM corn is designed to be unaffected by a powerful new herbicide that kills conventional corn plants. This new herbicide will kill most of the weeds that grow in cornfields.

The conservationists say that because these weeds are feed for small animals, especially insects, the use of the new herbicide with the GM corn will be bad for the environment. Supporters of the use of the GM corn say that a scientifies study has shown that this will not heapen.

Here are details of the scientific study mentioned in the above article:

- . Corn was planted in 200 fields across the country.
- Each field was divided into two. The genetically modified (GM) corn treated with the powerful new herbicide was grown in one half, and the conventional corn treated with a conventional herbicide was grown in the other half.
- The number of insects found in the GM corn, treated with the new herbicide, was about the same as
 the number of insects in the conventional corn, treated with the conventional herbicide.

GENETICALLY MODIFIED CROPS – QUESTION 3

Question type Multiple chairs
Computing Multiple chairs
Computing Multiple chairs
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Application and Training Multiple Chairs
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Section Section

Section Section Multiple Chairs

Section Mu

Com was planted in 200 fields across the country. Why did the scientists use more than one site?

- A. So that many farmers could try the new GM com
- B. To see how much GM corn they could grow
- C. To cover as much land as possible with the GM crop.

 D. To include various growth conditions for com.

Scoring

Full Credit: D. To include various growth conditions for corn.

Comment

Towards the bottom of the scale, typical questions for Level 2 are exemplified by Question 3 from the unit CRETICALLY MODIFIED EXORS, which is for the competency identifying scientific issues, Question 3 asks a simple question about varying conditions in a scientific investigation and students are required to demonstrate knowledge about the design of science experiments.

To answer this question correctly in the absence of cure, the student needs to be assure that the effect of the restiment of different herbicides on the out one different herbicides could depend one distributions of different herbicides (different herbicides), by a peparing miles to the country of the cou

In the absence of cues this question has the characteristics of Level 4, i.e. the student shows an awareness of the need to account for varying environmental factors and is able to recognise an appropriate way of dealing with that since However, the question actually performed at Level 2. This can be accounted for by the cue spreen in the three distractors. Students likely are able to easily eliminate there as options thus leaving the correct explanation as the answer. The effect is to reduce the difficulty of the question.



■ Figure I.3.18 ■ PHYSICAL EXERCISE



PHYSICAL EXERCISE - OUESTION 3

Question type: Complex multiple choice Competency: Explaining phenomena scientifically

Knowledge category: "Living systems" (knowledge of science)

Application area: "Health" Setting: Personal

Difficulty: 386 .

Percentage of correct answers (OECD countries): 82.4%

What happens when muscles are exercised? Circle "Yes" or "No" for each statement.

Does this happen when muscles are exercised?	Yes or No?
Muscles get an increased flow of blood.	Yes / No
Fats are formed in the muscles	Yes / No

Scoring

Full Credit: Both correct: Yes, No, in that order.

Comment

For this question, to gain credit a student has to correctly recall knowledge about the operation of muscles and about the formation of fat in the body, i.e. students must have knowledge of the science fact that active muscles get an increased flow of blood and that fats are not formed when muscles are exercised. This enables the student to accept the first explanation of this complex multiple-choice question and reject the second explanation.

The two simple factual explanations contained in the question are not related to each other. Each is accepted or rejected as an effect of the exercise of muscles and the knowledge has widespread currency. Consequently, the question is located at Level 1. PHYSICAL EXERCISE, CLOTHES and GRAND CANYON are at Level 1 (below the cut-point), at the very bottom of the scale for the competency explaining phenomena scientifically,



STUDENT PERFORMANCE IN SCIENCE

When science was the major subject in 2006, six proficiency levels were defined on the science scale. These same proficiency levels are used for reporting science results in PISA 2009. The process used to produce proficiency levels in science is similar to that used to produce proficiency levels in reading and mathematics, as described in Volume I, Chapter 2.

Figure 1.3.19 presents a description of the scientific knowledge and skills which students possess at the various proficiency levels, with Level 6 being the highest level of proficiency.

Figure I.3.19

Summary descriptions for the six levels of proficiency in science

Level	Lower score limit	What students can typically do
6	708	A Live 6, students can consistently identify, explain and paply scientific knowledge and knowledge about science in a unitery of complex life situations. They can like different information sources and explanations and use evidence from those sources to justify decisions. They closely and consistently demonstates advanced excellent findings and missestings and deep demonstrates willings set use of their scientific understanding in the contraction of the contraction
	633	At Level 5, students can identify the scientific components of many complex life distantions, apply both scientific concepts and knowledge about science to these situations, and can compare, select and evaluate appropriate scientific evidence for responding to life situations. Students at this level can use well-developed inputy abilities, lifek knowledge appropriately and bring critical insights to situations. They can construct explanations based on evidence and squarents based on their critical analysis.
	559	At Level 4, Budents can work effectively with ititiations and issues that may involve explicit phenomens requiring them to make inferences about the role of science or technology. They can select and integrate explanation middlement disciplines of science or technology and link those explanations directly to aspects of life tituations. Studens at this level can reflect on their actions and they can communicate decisions using scientific knowledge and evidence.
3	484	At Level 1, students can identify clearly described scientific issues in a range of contexts. They can select facts and knowledge to explain phenomena and apply simple models or inquiry strategies, students at this level can interpret and use scientific concepts from different disciplines and can apply them directly. They can develop short statements using facts and make decisions based on scientific knowledge.
2	409	At Level 2, students have adequate scientific knowledge to provide possible explanations in familiar contexts or draw conclusions based on simple investigations. They are capable of direct reasoning and making literal interpretations of the results of scientific inquiry or technological problem solving.
1	335	At Level 1, students have such a limited scientific knowledge that it can only be applied to a few, familiar situations. They can present scientific explanations that are obvious and follow explicitly from given evidence.

Proficiency at Level 6 (scores higher than 708 points)

Students proficient at Level 6 on the science scale can consistently identify, explain and apply scientific knowledge and floworledge about reference in switchly complete file situations. They can file different information sources and explanations and use evidence from those sources to justify decisions. They clearly and consistently demonstrate advanced scientific linking and reasoning, and they use their scientific understanding to solve unfamiliar scientific and technological situations. Students at this level can use scientific knowledge and develop arguments in support of recommendations and decisions that center on personal, goal, or global situation.

Across OCCD countries, an average of 1.1% of students person at Level 6. Between 2% and 5% of the students are at his level in New Zouland (2.6%), Finitud 6.3%), Australia (1.1%) and plant (2.6%) as well as in the partner countries and economies Singapore (4.6%), Shanghai-China (3.5%), and Hong, Kong-China (2.0%), In Mexico, Oile and Turkey, 90% of students reach this level, and the situation is similar in his off the partner countries, namely indonesia, Azerbaijan, Kyrgyzstan, Montenego, Parama, Albania, Colombia, Turisia, Jordan, Romania, Brazil, Kazakstan, Penc, Seish, Thailland and Argentina.



Proficiency at Level 5 (scores higher than 633 but lower than or equal to 708 points)

Students proficient at Level 5 can identify the scientific components of many complex life situations, apply both scientific concepts and knowledge about science to these situations, and can compare, select and evaluate appropriate scientific evidence for responding to life situations. Students at this level can use well-developed inquiry abilities, link knowledge appropriately and bring critical insights to situations. They can construct explanations based on evidence and arguments that emerge from their critical analysis.

Across OECD countries, 8.5% of students are proficient at Levels 5 or 6 (Figure 1.3.21 and Table 1.3.4). More than 15% of students are in either of these levels in Finland (18.7%), New Zealand (17.6%) and Japan (16.9 %), as well as in the partner countries and economies Shanghai-China (24.3%), Singapore (19.9%) and Hong Kong-China (16.2%). In three partner countries, Indonesia, Azerbaijan and Kyrgyzstan, 0% of students reach at least Level 5. Those countries with 0.5% or less of students at these levels are Mexico (0.2%) and the partner countries Albania (0.1%), Colombia (0.1%), Tunisia (0.2%), Peru (0.2%), Panama (0.2%), Montenegro (0.2%), Kazakhstan (0.3%), Romania (0.4%) and Jordan (0.5%).

Proficiency of Level 4 (scores higher than 559 but lower than or equal to 633 points)

Students proficient at Level 4 work effectively with situations and issues that may involve explicit phenomena requiring them to make inferences about the role of science or technology. They can select and integrate explanations from different disciplines of science or technology and link those explanations directly to aspects of life situations. Students at this level can reflect on their actions and can communicate decisions using scientific knowledge and evidence.

Across OECD countries, an average of 29.1% of students is proficient at Level 4 or higher (Level 4, 5 or 6) (Figure 1.3.21 and Table 1.3.4). Half of all students in Finland perform at Level 4, 5 or 6, and more than 60% do so in the partner economy Shanghai-China. Between 35% and 49% of students perform at one of these levels in Japan (46.4%), New Zealand (42.8%), Korea (42.0%), Australia (39.0%), Canada (38.3%), the Netherlands (38.1%), Germany (37.8%) and Estonia (36.1%), as well as in the partner countries and economies Hong Kong-China (48.9%), Singapore (45.6%) and Liechtenstein (35.1%). In contrast, less than 5% of students reach Level 4, 5 or 6 in Mexico (3.3%) and in the partner countries Indonesia (0.5%), Kyrgyzstan (0.8%), Azerbaijan (0.8%), Peru (2.0%), Albania (2.1%), Tunisia (2.3%), Panama (2.4%), Colombia (2.6%), Montenegro (3.4%), Kazakhstan (3.9%), Brazil (4.4%), Jordan (4.6%) and Romania (4.8%).

Proficiency at Level 3 (scores higher than 484 but lower than or equal to 559 points)

Students proficient at Level 3 can identify clearly described scientific issues in a range of contexts. They can select facts and tap knowledge to explain phenomena and apply simple models or inquiry strategies. Students at this level can interpret and use scientific concepts from different disciplines and can apply them directly. They can develop short statements using facts and make decisions based on scientific knowledge.

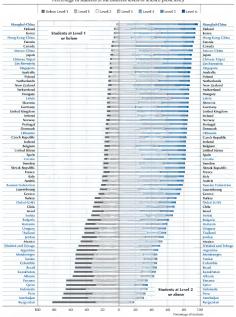
Across OECD countries, 57.7% of students are proficient to Level 3 or higher (Level 3, 4, 5 or 6) on the science scale (Figure 1.3.21 and Table 1.3.4). In the OECD countries Finland (78.7%) and Korea (75.2%), as well as in the partner economies Shanghai-China (86.3%) and Hong Kong-China (78.3%), over three-quarters of 15-year-olds are proficient to Level 3 or higher, and at least two-thirds of students in the OECD countries Japan (73.1%), Estonia (70.4%), Canada (69.6%), New Zealand (68.6%) and Australia (67.5%), and in the partner countries and economies Singapore (71.0%) and Chinese Taipei (67.8%) perform at least at this level.

Proficiency at Level 2 (scores higher than 409 but lower than or equal to 484 points)

Students proficient at Level 2 have adequate scientific knowledge to provide possible explanations in familiar contexts or to draw conclusions based on simple investigations. They are capable of direct reasoning and making literal interpretations of the results of scientific inquiry or technological problem solving. Level 2 has been established as the baseline level, defining the level of achievement on the PISA scale at which students begin to demonstrate the science competencies that will enable them to participate actively in life situations related to science and technology.

Across OECD countries, an average of 82% of students are proficient at Level 2 or higher. In Finland (94.0%), Korea (93.7%), Estonia (91.7%) and Canada (90.4%), as well as in the partner economies Shanghai-China (96.8%), Hong Kong-China (93.4%) and Macao-China (90.4%), more than 90% of students perform at or above this threshold. In every country except the three partner countries Kyrgyzstan (18.0%), Azerbaijan (30.0%) and Peru (31.7%), at least two-thirds of students are at Level 2 or above (Figure I.3.21 and Table I.3.4).

■ Figure I.3.20 ■ How proficient are students in science? Percentage of students at the different levels of science proficiency



Countries are ranked in descending order of the percentage of students at Levels 2, 3, 4, 5 and 6 Source: OECD, PISA 2009 Database, Table 1,3.4. Sciet.ink @00 http://dx.dos.org/10.1787/888932343152

ncy at Level 1 (scares higher than 335 but lawer than ar equal to 409 paints) ar belaw Students proficient at Level 1 have such limited scientific knowledge that it can only be applied to a few, familiar situations. They can present scientific explanations that are obvious and follow explicitly from given evidence,

Students performing below 335 score points - that is, below Level 1 - usually do not succeed at the most basic levels of science that PISA measures. Such students will have serious difficulties in using science to benefit from further education and learning opportunities and participate in life situations related to science and technology.

Across OECD countries, 18% of students perform below Level 2, 13% of students perform at Level 1 and 5% perform below Level 1, In Finland (6.0%), Korea (6.3%), Estonia (8.3%) and Canada (9.6%), as well as the partner economies Shanghai-China (3.2%), Hong Kong-China (6.6%) and Macao-China (9.6%), less than 10% of students perform at or below Level 1. In all other OECD countries, the percentage of students performing at or below Level 1 ranges from 10.7% in Japan to 47.4% in Mexico. More than three-quarters of students perform above Level 2 in the

Mean country performance in science

partner country Kyrgyzstan (82.0%) (Figure I.3.21 and Table I.3.4).

Countries' performance in science can be summarised by a mean score. Science was the focus of the PISA 2006 survey. The mean in science for OECD countries was set at 498 in PISA 2006 and at 501 in PISA 2009.

When interpreting mean performance, only those differences between countries that are statistically significant should be taken into account. Figure 1.3.21 shows each country's mean score, and allows readers to see for which pairs of countries the differences between the means shown are statistically significant. For each country shown on the left in the middle column, the list of countries in the right hand column shows countries whose mean scores are not sufficiently different to be distinguished with confidence. For all other cases, one country has higher performance than another if it is above it in the list in the middle column, and lower performance if it is below. For example: Shanghai-China, ranks first on the PISA science scale, but Finland, which appears second on the list, cannot be distinguished with confidence from Hong Kong-China, which appears third.

Three countries and economies outperform all other countries and economies in science in PISA 2009 with more than half a standard deviation above the average: the OECD country Finland, with 554 score points, and the partner economies Shanghai-China and Hong Kong-China, with 575 and 549 score points, respectively. Japan and Korea and the partner country Singapore have mean scores of 539, 538 and 542, respectively, which are around half a proficiency level or above the average of 501 score points in PISA 2009. Other countries with mean performances above the average include New Zealand, Canada, Estonia, Australia, the Netherlands, Germany, Switzerland, the United Kingdom, Slovenia, Poland, Ireland and Belgium, and the partner countries and economies Chinese Taipei, Liechtenstein and Macao-China, Countries that performed around the average include Hungary, the United States, the Czech Republic, Norway, Denmark and France.

The gap in performance between the highest and the lowest performing OECD countries is 138 score points. That is, while the average score of the highest performing country. Finland, is 554, or more than half a standard deviation above the average, Mexico's average score of 416 score points is almost one standard deviation below the average. But the gap among the partner countries and economies is even larger, with 245 score points of difference between Shanghai-China (575) and Kyrgyzstan (330).

Because the figures are derived from samples, it is not possible to determine a precise rank of a country's performance among the participating countries. It is possible, however, to determine with confidence a range of ranks in which the country's performance level lies (Figure 1.3.22).

The performance difference between students within countries and economies is shown in Table 1.3.6. The distribution of student performance in science within countries and economics is even larger than in mathematics, ranging from 227 to 358 score points. Among OECD countries, some of the lower performing countries, such as Mexico, Turkey and Chile, show the narrowest distributions between the 5th and 95th percentile in the OECD, with this difference equivalent to 254, 265 and 268 score points, respectively. However, Korea shows a difference of 266 score points, but is among the 3 highest-performing OECD countries. In the same way, Shanghai-China, with the best score in science for PISA 2009, has a narrow distribution, with only 270 score points.



■ Figure I.3.21 ■

Comparing countries' performance in science

Statistically significantly above the OECD average Not statistically significantly different from the OECD average Statistically significantly below the OECD average Countries whose mean score is NOT statistically significantly different from that comparison country Comparison country Finland Hong Kong-China Finland 542 Singapore Japan, Kores Singapore, Korea, New Zealand japan Korea Singapore, Japan, New Zealand New Zealand Japan, Korea, Canada, Estonia, Australia, Netherlando Canada New Zealand, Casarda, Australia, Netherlands, Germany, Leichtenstein Australia New Zeoland, Canada, Estonia, Netherlands, Chinese Tapes, Germany, Liechtenstein Netherlands New Zeoland, Casada, Estonia, Australia, Chinese Taiper, Gennary, Lechtendern, Switzerland, United Kingdom, Slovens. Chinese Taper Australia, Netherlands, Germany, Lechtenstein, Switzerland, United Kingdom Germany Estania, Australia, Netherlands, Chinese Taipoi, Liechtenstein, Switzscland, United Kingdom Ditorso, Australia, Netherlands, Chanese Tarper, Germany, Switzerland, United Engigen Netherlands, Chinese Taipei, Germany Liechtenstein, United Kingdom, Slovenn, Macao-China Switzerland United Kingdom Netherlands, Chinese Tripei, Germany Liechtendein, Switzerland, Slovense, Macco-China, Poland, Iroland Sizvensa Netherlands, Switzerland, United Kingdom, Maczo-China, Paland, Iwland, Bolgson Macao-Chris Switzerland, United Kingdom, Slovensa, Poland, Ireland, Belgium United Kingdom, Slovenia, Macao-China, Indand, Belgium, Hungary United States Poland Ireland United Kingdom, Slovema, Macao-China, Poland, Belgium, Hungary, United States, Czech Republic, Norway Belgum Slovener, Macro-China, Poland, Invisted, Hungary, United States, Carch Republic, Nanway, Filince Poland, Iroland, Bolgium, United States, Casch Republic, Nanesy, Denmark, Fastos, Sweden, Austra Hungary United States Poland, Ireland, Belgium, Hungary, Czech Republic, Norway, Demmark, France, Iceland, Sweden, Austra, Latva, Portuga Czech Republic Inland, Belgium, Humany, United States, Czech Republic, Denmark, France, Iceland, Sweden, Austria, Latvia. Hungary, United States, Czech Republic, Norway, France, Iceland, Sweden, Austria, Latina, Portugal United States, Casch Republic, Narway, Donmark, France, Sweden, Austria, Latria, Portugal, Lithuania, Slovak Republic Sweden Hungary, United States, Czech Republic, Norway, Denmark, France, Icoland, Austria, Latina, Portugal, Lathuama, Slovak Republic, Italy Hungary, United States, Czech Republic, Nomey, Denmark, France, Icoland, Sweden, Latva, Portugal, Lithuania, Slovek Republic, Italy, Spein United States, Cosch Republic, Norway, Denmark, Farnos, Icoland, Sweden, Austria, Portugal, Lithusnia, Slovak Republic, Italy, Spain, Creatia Portugal United States, Casch Republic, Norway, Denmark, France, Icoland, Sweden, Austria, Latva, Lithuania, Slovak Republic, Italy, Sprin, Creek France, Rodand, Sweden, Austru, Latera, Portugel, Slovak Republic, Italy, Spars, Crosta Slovak Republic France, Iceland, Swoden, Austria, Litvia, Portugal, Lithuania, Italy, Spain, Croatia Sweden, Austria, Latvia, Portagal, Lithurnia, Slovak Republic, Spain, Crastia Italy Spire Austru, Latvo, Portugal, Lithuanu, Slovak Ropublic, Italy, Groate, Luxembourg Austria, Latvia, Retugel, Liftsamus, Slovnik Ropublic, Italy, Sport, Laternbesing, Rossant Federation Luxembours Spain, Croatia, Russian Federation Israel, Chile Turkey Chie Israel, Turkey, Serbra, Bulgana Chile, Serbia, Romania, Uruguay Bulgana, Uruguny Thailand Romania, Uruguay Меню Mexico, Tinnidad and Tobago Torredad and Tobago Jordan, Brazil Trinidad and Tobago, Colombia, Montenegro, Aegentina, Tunisia, Kazakhsta Brazil, Montenegro, Argentina, Tunesa, Kazakhstan Bezel, Colombia, Argentina, Tamina, Kazaléstan Brazil, Colombia, Montenegro, Tuesia, Kazaldetan, Albenia Brizil, Colombia, Montenegro, Argentina, Kuzikhitan Bearl, Colombia, Morteriogra, Argentina, Turnia, Albana Argentino, Kazakhstan, Indonesia Albema Indonesia, Panima

Source OECD, PISA 2009 Database Station ago http://de.doi.org/10.1787/888932343152



■ Figure I.3.22 ■ Where countries rank in science performance

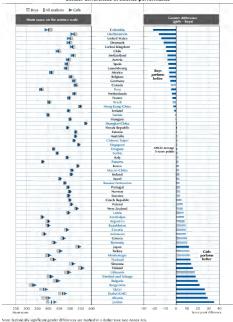
Sonsically significantly above the OECD average Not substically significantly different from the OECD average Substically significantly below the OECD average

				ience		
					of rank	
			OECD	countries		w/ecozomies
	Mean Score	S.E.	Upper rank	Lower rank	Upper rank	Lower rank
ihanghu-China	575	(2.3)			1	
inland	554	(2.3)	1		2	3
tong Kong-China	549	(2.8)			2	3
lingspore	542	(1.4)			4	6
apan .	539	(3-4)	2	3	4	6
Corea	538	(3.4)	2	4	4	7
New Zealand	532	(2.6)		6	- 6	9
anada	529	(1.6)	- 4	7	7	10
stonia	528	(2.7)	- 4	8	7	
ustralia	527	(2.5)	4	ā	7	11
ictherlands	522	(5.4)	- 4		7	16
hnese Taiper	520	(2.6)			- 11	15
ermany	520	(2.8)		10	10	1.5
echtenden	520	(3.4)			10	16
mitecriend	517	(2.8)	8	12	12	
inited Kingdom	514	(2.5)	9	13	14	19
lovenia	512	(1.1)	10	13	16	19
Ascao-China	511	(1.0)			16	19
oland	508	(2.9)	12	16	17	22
reland	508	(3.3)	11	17	16	23
lekjum	507	(2.5)	12	17	18	24
lunzary	503	(3.1)	13	21	19	27
mited States	502	0.0	15	22	19	29
zech Republic	500	0.0	15	23	21	29
iorwiy	500	(2.6)	16	23	21	
tenmark	499	(2.5)	16	23	22	an.
rance	498	(3.6)	16	25	22	33
rance	420	(1.4)	20	25	26	32
weden	495		19	26		34
estna	494	(2.7)	19	28	25	36
			19	28		
atvsa	494	(3-1)		-	25	35
ortugal	493	(2.9)	21	28	27	36
shuana	491	(2.9)	_		28	37
łovak Republic	490	(3.0)	23	29	29	37
Laby	489	(1.8)	25	28	32	37
pain	488	(2.1)	25	29	32	37
roadia	485	(2.8)			33	39
membourg	484	(1.2)	28	29	37	39
lusivan Federation	478	(3.3)			38	40
reece	470	(4.0)	30	30	39	41
Subau (UAE)	466	(1.2)			40	41
rael	455	(3.1)	31	32	42	43
urkey	454	(3.6)	31	33	42	-44
hile	447	(2.9)	32	33	43	45
ertea	443	(2-0			44	46
lulgana	439	(5.9)			-64	47
lomatra	428	(3.4)			47	49
Ineguay	427	(2.6)			47	49
heland	425	(3-0)			47	49
Aceco	416	(1.8)	34	34	90	51
ordan	415	(3.5)			50	52
nreded and Tobago	410	(1.2)			51	53
ozil	405	(2.4)			52	56
olombia	402	(3.6)			53	58
ionienegro	401	(2.0)			54	56
rgentina	401	(4.6)			53	59
prise.	401	(2-7)			53	58
azakhstan	400	(3-1)			53	58
azaknetan Ibama	100	(3-9)			53	50
ibana sdonesa	391	(3-9)			58	62
Qal.ar	379 376	(0.9)			60	62
enama		(5.7)				
izerbayan	373 369	(3-1)			62	64
'enu		(3.5)				
Cyrgyzstan	330	(2.9)	THE OWNER OF THE OWNER OWNER OF THE OWNER OW		65	65

Source OECD, PISA 29 Database Station with http://dx.doi.org/10.1787/8888332343152



■ Figure I.3.23 ■ Gender differences in science performance



Countries are ranked in ascending order of the gender score point difference (girls - boys) Source: OECD, PISA 2009 Database, Table 1.3.6. StatLink 42000 https://dx.doi.org/10.1787/888952343152

Gender differences in science

Across OCCO countries, leave defences in science performance and the notes and both in subsolute terms and contraction of the science of the science performance and the notes and both in science is a science performance and the notes and post in science performance and the notes and post in science is performance and the notes and post in science is a science in a

The largest gender differences in fusour of loops are observed in the United States and Demmark, with 14 and 12 score points, respectively, and in the partner countries Colombia and Uchentinestie, with 21 and 16 score points, respectively, in the United Kingdom, Chile, Switzerland, Spain, Lucembourg, Mexico and Canada, boys outperform golfs in science with a difference that ranges from the c in time score points. In the gift on upperform boys in science in Finland, Skovenia, Tarley and Cirecte, with a difference of 10 to 15 score points, and in Poland with a difference of a core points in the partner countries foreign. Adhania, Daked 11/43, Clates, Krygs gash, Tudgards, Window and Toldago, Carce points, and some partner countries foreign. Adhania, Daked 11/43, Clates Krygs gash, Tudgards, Window and Toldago, Unitanais, Thailands, Abentenings and Konnais, which perform below the average, the adhantinger of gift ranges from Landaw with a smaller office foreign and the Connais of the

Box 1.3.1 Top performers in reading, mathematics or science

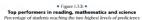
The rapidly growing demand for highly skilled workers has led to a global competition for talent. High-level skills are critical for creating new knowledge, technologies and innovation and, as such, are key to economic growth and social development. Looking at the top performing students in reading, mathematics and science allows countries to estimate their future talent pool. [See (OFCD, 2009)]

"Top performers" in reading, mathematics or science refer to students who attain Level 5 or 6 in these subjects, i.e. perform higher than 626 score points in reading, 607 score points in mathematics, or 633 score points in science.

Figure 1.3. a shows the proportion of top performers in the three subject areas across OECD countries. Parts in the diagram in blue represent the percentage of 15-year-old students who are top performers in just one of the three assessment subject careas, that is, in either reading, multiherantics or science. The parts in grey show the percentage of students who are top performers in throu of the subject areas, while the white part in the centre of the diagram shows the percentage of 15-year-old students who are to performers in all three assessment subject areas.



Note! Non-top performers in any of the three domains: 83.7%. Source: OECD, PISA 2009 Database, Table 1.3.7. Startlink @cm http://dc.doi.org/10.1187/88902200152



Mean		Mean		50% Moon	
SCORE	Reading	9000	Mathematics	36% 8000	Science
Shanshai-China (556)	and the latest two	Shanghai-China (600)		Shanehai-China (575)	
New Zealand (521)		Singapore (562)		Singapore (542)	
Singapore (526)	and the last of th	Hong Kong-China (555)		Finland (554)	
Finland (\$36)		Chinese Taipei (543)		New Zealand (532)	
Japan (520)	and the same of th	Korea (546)	CONTRACTOR OF THE PARTY OF THE	Japan (539)	
Korna (539)		Switzerland (534)		Hong Kong-China (549)	The second second
Australia (515)	THE REAL PROPERTY.	Finland (541)		Australia (327)	
Canada (524)	protection :	Japan (529)	-	Germany (520)	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO
Hong Kong-China (533)	emirada .	Belgium (515)		Netherlands (522)	100
Belgium (506)	1000	Netherlands (526)		Canada (529)	1000
United States (500)	STORE .	New Zealand (519)		Korea (538)	THE REAL PROPERTY.
Netherlands (508)	Total Control	Canada (527)		United Kingdom (514)	
France (496)	DESCRIPTION OF THE PERSON NAMED IN COLUMN 1	Liechtenstein (536)	The state of the s	Switzerland (517)	1000
Sweden (497)	100	Germany (513)		Estonia (528)	THE REAL PROPERTY.
Iceland (500)	and the same of th	Macao-China (525)		Belgium (507)	
Norway (503)	E23	Australia (514)		Slovenia (512)	DECEMBER OF THE PERSONS
Switzerland (501)	puters	Slovenia (501)	THE REAL PROPERTY.	Liechtenstein (520)	
United Kingdom (494)	HETS CONT.	France (497)	THE REAL PROPERTY.	United States (502)	THE R. L.
OECD average (492)	(CC)	Iceland (507)	THE RESIDENCE	Chinese Taipel (520)	and the same
Germany (497)		Austria (496)		Ireland (568)	Printer.
Israel (474)	pp	OECD average (4%)		OtCD average (501)	min .
Poland (500)	-	Slovak Republic (497)		Czech Republic (591)	DOM:
Ireland (496)	ents comment	Estonia (512)	Desire State of the last of th	France (498)	man .
Hungary (494)	more .	Czech Republic (493)		Sweden (495)	PROPERTY.
Estonia (501)	-	Denmark (503)	100	Austria (495)	PRODUCT .
italy (456)	ma .	Sweden (494)		Poland (508)	
Luxembourg (472)	109	Luxembourg (489)	1000	Iceland (496)	DOM:
Greece (483)	THE STREET	Poland (495)		Denmark (499)	eres .
Dubai (UAE) (459)	100	Norway (498)		Luxembourg (484)	prints .
Chinese Talpei (495)		Hungary (490)		Norway (500)	mo .
Czech Republic (478)	103	United States (487)		Slovak Republic (490)	00
Austria (470)		United Kingdom (492)	1	Italy (489)	
Portugal (489)		Portugal (487)	100	Dubai (UAE) (466)	-
Denmark (495)		Italy (483)	and the same of	Hungary (503)	P
Liechtenstein (499)		Spain (483)	NO.	Macao-China (511)	
Slovenia (483)		Lithuania (477)	119	Lithuania (491)	m .
Slovak Republic (477)		Incland (487)			-
Spain (481)	m in	Dubal (UAE) (453)	19	Portugal (493)	
Croatia (476)	m	Israel (447)		Spain (488)	-
Russian federation (459)	13	Greece (466)		Israel (455)	m
Latviz (454)		Latyla (482)	100	Croatla (486)	
Lithuania (468)		Turkey (445)		Latvia (494)	100
Macao-China (487)		Russian Federation (468)		Greece (470)	
Bulgaria (429)		Croatia (466)	ET .	Bulgaria (439)	
rinidad and Tobago (416)		Bulgaria (428)		Trinidad and Tobago (410)	B
Turkey (46-1)	10	Serbla (442)		Uruguay (427)	
Uruguay (426)		Trinidad and Tobago (414)		Qatar (379)	
Qatar (372)		Uruguay (427)		Turkey (454)	
Brazil (412)		Qutar (368) Chile (421)		Chile (447) Serbia (443)	
Chile (449)		Thullend (4219)			
Argentina (398) Serbia (442)		Romania (427)		Aegentina (401) The fland (425)	
Romania (424)		Kazakhstan (427)		Brazil (405)	
Montenegro (408)		Azerbaijan (431)		Jordan (415)	
Colombia (413)		Montenegro (401)		Romania (415)	
Panama (371)		Mostenegro (403) Argentina (388)		Kazakhstan (428)	
Panama (371) Peru (370)		Argentina (581) Sezzii (586)		Kazakhslan (400) Montenegro (401)	
Mexico (425)		Mexico (419)		Panama (376)	
Kazakhstan (200)		Mexico (419) Peru (365)		Penama (376) Peru (36%)	
Thailand (421)		Albania (377)		Mexico (416)	
Inaliand (421) Jordan (405)		Albania (377) Panama (368)	100	Tunisia (401)	
Jordan (995) Tunisia (404)		Jordan (387)		Colombia (402)	
Albania (385)		Jordan (587) Tunisla (371)		Albania (391)	
Kyrgyzstan (314)		Colombia (381)		Kyrgyzstan (330)	
Indonesia (402)		Indonesia (371)		Azerbaijan (373)	-
Azerballan (362)		Kyngyzstan (371)		Indonesia (383)	

Countries are ranked in descending order of the percentage of top performers (Level 5 or 6). Source: OECD, PISA 2009 Database, Tables 12.1, 13.1 and 13.4.

Source: OECD, PISA 2009 Database, Tables 12.1, 13.1 a StatLink Name http://dx.doi.org/10.1787/888922H352 3

On average across OECD countries, 16.3% of students are top performers in at least one of the subject areas of science, mathematics or reading. However, only 4.1% of 15-year-old students are top performers in all three assessment subject areas. This shows that excellence is not sumply strong performance in all areas, but rather that it can be found amone a wide rance of students in various subject areas.

About 1.2% of students are top performers in both reading and mathematics but not in science, less than 1% of students (0.8%) are top performers in both reading and science but not in mathematics, and 2.4% are top performers in both mathematics and science but not in reading. The percentage of students who are top performers in both mathematics and science is greater than the percentages who are top performers in reading and mathematics or in reading and escience.

There is substantial variation among countries in the percentages of top performers in the three subjects (see table 1.27). Top performers complete between 8% and 10% of 1.5 years of statedts in New 2.6 Health Finland, Japan and Australia, and in the partner economy fromg Kong China, and even more in the partner countries and economies Sandpals-China and Singapore, with 1.6.4% and 12.35, respectively. Comercely, in 3 OCD countries and 21 partner countries and economies, less than 1% of students are top performers in all 3 domains.

Figure 13.b shows the proportions of top performers for each country in reading, mathematics and science. Although on accept across OECO countries, stightly less than 7% and 15% of 15% pass olds such tacked less than 15% and 15% of 1

Anong countries with similar mean scores in PSA, there are remarkable differences in the percentage of topporforming students. For example, Licerhenties has a mean score of 499 points in reading in PSA. Sold person and less than 7% of students at high proficiency levels in reading, which is less than the average of around 9%. Sweden has a similar mean reading core of 499 points, but 7% of its students acknew high proficiency in reading, which is more than the average. Although Licchtenstein has a small percentage of students at the lowest levels, the results could indicate the absence of a highly obtacated taller pool for the future.

Despite similarities across countries for each subject area, a high rank in one subject is no guarantee of a high rank in the others. For example, Switzerland has one of the highest shares of top performers in mathematics, but just an average share of top performers in reading.

Aross the three subjects and countries, gifts are as likely to be top performers as boys. On average across OCCO countries, the proportion of log performers across subject areas as initial netweren boys and gifts 4.4% of gifts and 3.8% of boys are top performers in all three subject areas (see higher across, and 15.6% of gifts and 7.5% of gifts and 7.5



Evidence of the importance of reading fitnessy for the success of individuals, economies and societies has never been stronger. After nearly a decade of PSA studies, those participating countries that have conducted longitudinal studies have shown that the reading kills which PSA measures are a strong predictor of positive outcomes for young adults, influently exhibit participation of the properties of th

Not surprisingly, the percentages of young people who display very low and very high levels of literacy and the gap between them, which reflects the amount of inequality among populations or subgroups, have profound implications for a nation's prospective economic and social development.

The results of PISA 2009 show wide differences between countries in the knowledge and skills of 15-year-olds in reading literacy. The equivalent of an average of six years of schooling, 242 score points, separates the highest and lowest average performances of the countries that took part in the PISA 2009 reading assessment. Differences between countries, however, represent only a fraction of overall variation in student performance. The difference in reading performances within countries is generally even greate, with often over 200 point separating the highest and lowest performers in a country. Addressing the educational needs of such diverse populations and narrowing the observed gas in student performance remains a formitable challence for all countries.

To what extent is the observed variation in student performance on the PSA 2009 assessments a reflection of a possible innate distribution of student's abilities, and thus a challenge for education systems that cannot be influenced directly by education polecy? The analysis in this volume shows that not only do the magnitude of within-country dispurities in reading performance vary which between countries, built and to large dispurities in performance are not necessary for a country to attain a high level of overall performance. Although more general contestual faction need to be considered when such disparities are compared between countries, public policy has the potential to make an important contribution to providing equal opportunities and equitable learning outcomes. These for all students. Countries differ not pair in their mora performance, but also in the executor twich they are able to close the gap between the students with the lowest and the highest levels of performance and to reduce some of the barriers to equitable distribution of learning outcomes. These findings are relevant to policy makers.

Many factors contribute to variation in student performance. Disparities can result from the socio-economic backgrounds of students and schools, from the human and financial resources available to schools, from curricular differences, and from the way in which teaching to organised and delibered. As the causes of variation in student performance differ, so to do the approaches chosen by different countries to address the challenge. Some countries have mon-selective school systems that seek to provide all students with the same opportunities for learning and require each school to cater to a full range of student performances. Other countries respond to diversity by forming groups of students with similar levels or performance through selection either within or between schools, with the aim of serving students according to their specific needs. Volume IV examines in greater detail how such policies and practices relate to the performance of students and schools in reading.



TACKLING LOW PERFORMANCE

Countries with large numbers of students who struggle to master basic reading literacy skills at age 15 are likely to be held back in the future due to substantial proportions of the adult population lacking skills that are needed in the modern workplace and society. Among those who fail to reach Level 2 on the PISA reading scale, the majority can be expected not to continue with education beyond school age, and therefore risk facing difficulties using reading for learning throughout their lives. Level 2 can be considered a baseline level of proficiency, at which students begin to demonstrate the reading skills that will enable them to participate effectively and productively in life. Students who do not reach Level 2 have difficulties locating basic information that meets several conditions, making comparisons or contrasts around a single feature, working out what a well-defined part of a text means when the information is not prominent, or making connections between the text and outside knowledge by drawing on personal experience and attitudes. The proportion of 15-year-olds in this situation varies widely across countries, from fewer than one student out of ten in four countries and economies to the majority of students in ten countries. Even in the average OECD country, where nearly one student out of five does not reach Level 2, tackling such low performance remains a major challenge.

The 2009 PISA assessment improved the measurement of low performance by separating performance below Level 2 into two sub-levels. Some low-performing students show the ability to find and process simple information at proficiency Level 1a. Among those unable even to do these tasks, the majority nevertheless still demonstrate technical reading skills, by solving easier tasks at the lower Level 1b, which only require students to retrieve very simple and explicit information from texts. In all but six countries in PISA 2009, over 90% of students can read at least to this level. This shows that while countries hoping to compete in the world economy need to reduce the number of students who do not reach Level 2, in most cases they have at least something to build on. The policy challenge is to improve students' proficiency by raising their ability to find, interpret and reflect on information in different kinds of text. Those countries that have achieved marked improvements among their lowest performers in reading over the last decade demonstrate that this can be done. Volume V shows, for example, that in Chile the proportion of students performing below Level 2 fell from nearly half in 2000 to below one third in 2009.

Reducing the proportion of students performing below Level 2 also has an important economic dimension. The magnitude of this gain is illustrated by a model which estimates that bringing all students to Level 2 could boost the combined economic output of OECD countries by around USD 200 trillion. While such estimates will always be associated with considerable uncertainty, they suggest that the cost of educational improvement is just a fraction of the high cost of low educational performance.

In tackling low performance, countries need to look at a range of associated factors identified by PISA. The significance of social background is examined in Volume II of this series, of attitudes to learning in Volume III and of school policies, practices and resources in Volume IV. Another important factor is gender: on average in OECD countries, one girl in eight and one boy in four failed to reach Level 2 in PISA 2009. This significant gender gap in underperformance is particularly large in some high-performing countries where almost all remaining underperformance exists among boys. In Finland, for example, only 3% of girls do not reach Level 2, but among boys it is 13%. Some other countries with performance slightly below the OECD average still have very few girls performing poorly, but overall performance is brought down by the large number of boys at low proficiency levels; in Latvia, 9% of girls and 27% of boys do not reach Level 2, and in the Slovak Republic that proportionately is 13% and 32%, respectively. While the situation is less extreme elsewhere, in many OECD countries it is clear that a focus on underperformance needs to target boys. This is particularly so as the gender gap has significantly widened over the last decade.

The fact that performance differences within the genders are significantly larger than between the genders suggests that this challenge can be successfully addressed.

PURSUING EXCELLENCE

At the other end of the proficiency spectrum, a small proportion of students attains Level 5 or higher. These students will be at the forefront of a competitive, knowledge-based global economy, and in each country their numbers will be important. They are able to retrieve information by locating and organising several pieces of deeply embedded information, inferring which information in the text is relevant; critically evaluate information and build hypotheses drawing on specialised knowledge; develop a full and detailed understanding of a text whose content or form is unfamiliar, and deal with concepts that are contrary to expectations.



Results from the PISA 2009 assessment show that nurturing high performance and tackling low performance need not be mutually exclusive. The countries with the very highest overall reading performance in PISA 2009, Finland and Korca, as well set he partner economics Frong Kong-China and Shanghal-Linha, also have among the lowest variation in student scores. Equally importantly, since 2009, Korea has been able to raise its already high reading performance by more than doubling the percentage of students reaching Level 5 or higher.

On average across OECD countries, 7.6% of students attain at least Level 5, but in Singapore, New Zealand and Shanghai-China this percentage is around twice the OECD average. For some countries, developing even a small corps of high-performing students remains an aspiration; in 16 countries, Newer than 1% of students reach Level 5.

STRENGTHS AND WEAKNESSES IN DIFFERENT KINDS OF READING

To read with understanding, students need to be able to netrice, interpret and reflect on written information. This is a true not just of advanced reading, but it is evident at every developmental level, more so than even in the ago of the his gas of the his gas of the large of the properties of the

In some countries, student performance varies between different aspects of reading in significant ways. Such variation may be related to differences in the ways in which reading skills are taught and learned in different culturation, to variations in curriculum emphasis or to the effectiveness with which different aspects of the school curriculum is delivered.

One reason for finithing that these differences could be linked to some deep-seated features of national cultures or curricula is that there are marked patterns of variation across different groups of countries. This is the in particular of the relative performance shown by students, on the one hand, on the reflect and evaluate subscale and, on the other, on the other two reading subscales—access and reviewe and integrate in all predeminantly English-speaking countries and in eight out of inne Latin American countries in PSA, the subscale where students showed the greatest strength was reflect and evaluate, and in most of these cases the difference with other subscales was substantial. In contrast, among 19 PSA countries in Eastern Europe, Southeast Europe and Central Asia, there were some significant differences in subscale results in 17 countries, and in all but 2 of these, the reflect and evaluate subscale was the weaker. It is suggests that in some cultures, students are better at getting to grips with more direct crading tasks requiring frent to obtain information from a test and work out what it means, while in others, they are relatively better at reflicting on the implications of its content. Since both types of skill are needed to be a good reader, be affected to the subscales of the conference o

Similarly, there are marked differences between countries in their performance in reading tosts in different formas, in the 12 countries with authorisally better performance in reading continuous tests than non-continuous tests, it may be that there is a more traditional language-of-instruction curriculum, in which tiltle attention is paid to analysing and reflecting on non-prose material. It is noteworthy that the six countries in which performance on non-continuous tests was stronger than on continuous tests were all relatively high-performing countries over all. Moterover, given the association between the relatively strong performance of bosy on non-continuous tests, and their propensity (explored in Volume III) to engage with tests of divense formats, it would appear that exposure to a variety of tests in different formats is likely to take reading proficiency as a whole. And taking into account the importance of understanding and using non-continuous tests in adult life, a pedagogical implication of these findings is that, in the classroom, young people should be exposed to and learn to negotiate a variety of texts in different formats.

STUDENT PERFORMANCE IN MATHEMATICS AND SCIENCE

As in scaling, PSA 2009 shows large contrasts between some countries with outstanding performance in mathematics and science, and others with very large numbers of students who have limited proficescy in these domains. In both mathematics and science, students in some East Asian countries and economies did particularly well in 2009. The highest wareage performance in mathematics was seen in the recountries and economies that its approximation for the countries and economies in this region, Shanghair. China, Singapore, Hong Kong-China, Kones and Chinese Tajeci. Students in Shanghair-China Jaha are man performance of 600 points, equivalent to nearly the spot fewel 4 in contrast, the mean performance in the highest caunty outside.



this region, Finland, was at the top of Level 3, and the OECD average was near the bottom of Level 3. Similarly, in science, five of the best-performing six countries and economies, Shanghai-China, Hong Kong-China, Singapore, Japan and Korea, were from East Asia. On the other hand, in both mathematics and science, the lowest-performing countries were up to two proficiency levels below the OECD average, with 11 partner countries in mathematics and 7 in science at average scores below 400.

One feature of these wide differences in performance is a wide divide across countries in the proportion of students who lack basic skills in mathematics and science, which they will require to operate effectively in today's world. In both subjects, about one student in five in OECD countries does not progress beyond a very basic level of understanding at Level 1. This means for example that they can only perform mathematical tasks in very familiar contexts and can only show understanding of science at a very basic level in a limited range of situations. Such students will have difficulties thinking mathematically and scientifically in a world that demands this of them in their working lives and as active citizens. While in all but five OECD countries, at least three-quarters of students get above this level in mathematics, in Chile and Mexico half are below it; this is also the case in 15 partner countries, In science, 13 partner countries and economies (but no OECD countries) have a majority of students below Level 2. These countries still need to work hard to enable the majority of their population to understand a world in which scientific issues are part of public debate.

At the other end of the proficiency scale, the number of students reaching Level 5 or 6 in mathematics and science will be particularly important for countries wishing to create a pool of workers able to advance the frontiers of scientific and technological knowledge in the future and compete in the global economy. Here again, the contrasts are stark. In Chile and Mexico, and 16 partner countries and economies, fewer than one in 50 students reach this high level of mathematics proficiency, In all other OECD countries it is at least 1 student in 20, on average in OECD countries it is 1 in 8, and in Korea and Switzerland, the OECD countries with the highest proportion of students proficient in mathematics at least at Level 5, it is 1 in 4. While the last two countries are clearly at an advantage with twice the proportion of students highly proficient in mathematics than the average for the OECD, several East Asian countries and economies show that this is by no means an upper limit. Around one in three students in Hong Kong-China and Singapore, and a half of those in Shanghai-China are at Level 5 or 6 in mathematics. This creates a challenge to all OECD countries, showing that it is possible to develop a population where high mathematical proficiency becomes the norm, allowing broadly-based participation at the high end of the knowledge economy. In the case of science, there are similar patterns but the differences are not as wide: Shanghai-China has 24% of students at Level 5 or 6, compared to 19% in Finland, the highest OECD country.

In mathematics and science, gender differences are less important than in reading. In most countries, there is no difference in science, and while boys are ahead in mathematics, in 37 out of 65 PISA countries, most differences are relatively small, The exceptions are in Belgium, Chile, the United Kingdom, the United States and partner countries and economies Colombia and Liechtenstein, where boys are at least 20 score points ahead of girls. It is noticeable that in none of the highest-performing countries in mathematics are there large gender differences, and in Finland, Korea and partner countries and economies Chinese Taipei and Shanghai-China, all among the highest performers, gender differences are not significant.

These results show countries where boys are still more likely than girls to perform well overall in mathematics that there is no absolute barrier preventing girls from performing well. The picture for high performance is less clear-cut. In OECD countries most of those reaching the very highest proficiency level, Level 6, are boys: on average 4% of boys reach this level, compared to 2% of girls. However, in the partner countries and economies Chinese Taipei and Shanghai-China, similarly high numbers of boys and girls reach Level 6. Indeed, in these countries and in Singapore, at least 10% of girls reach Level 6. Even among boys, there is only one OECD country - Switzerland - where one in ten reaches Level 6. Thus, there is no "ceiling" of mathematical performance above which girls are bound to do worse than boys, and the barriers that exist appear to be related to cultural factors rather than the distribution of natural ability.

THE POTENTIAL TO IMPROVE PERFORMANCE ACROSS THE WORLD

The balance of proficiency in some of the richer countries in PISA looks very different from that of some of the poorer countries. In reading, for example, the ten countries for which the majority of students are at Level 1 or below, all in poorer parts of the world, contrast starkly in profile with the 34 OECD countries, where on average a majority reach at least Level 3. However, the fact that the best-performing country or economy in the 2009 assessment is Shanghai-China, with a GDP per capita well below the OECD average, underlines that low national income is



not incompatible with strong educational performance. Indeed, while there is a correlation between GDP per capita and educational performance, this correlation only predicts % of the differences between average suderin performance across counties. The other 9% of differences reflect the fact that two counties of shall prosperity can produce very different educational results. The results are similarly variable when substituting spending per student, relative powerly or the share of sudents with an immigrant background for GDP per capital.

This finding represents both a warning and an opportunity, it is a warning to countries in the "developed" would that they cannot take for planted that they will need to accept the "Human capital" superior to other parts of the would. As a time they cannot take for both parts of the would. As a time they cannot take for other parts of the would. As a time they cannot take for other parts of the would. As a time they cannot be competition, these countries will need to work heard to maintain a knowledge and skill have that knows a considerable competition, the countries where the take the considerable competition and considerable competition and the considerable considerable considerable considerable competition. The play the considerable considerable considerable competition and economic cost of post educational performance in advanced economies risks becoming a significant dargo on economic development in high wage countries.

At the same time, the findings show that poor literacy skills are not an inevitable consequence of relatively low or national income — an encouraging outcome for less developed countries that currently have large numbers of restudents performing at low levels. Indeed, Volume V, looks at tends in PISA and identifies a number of poorer countries that have mades substantial intensals into deductional performance in a relatively short pace of time. Overall, PISA shows that an image of a world divided neathy into rich and well-educated countries and poor and badly-er-ducated countries is well out-of-date.





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Annex A

TECHNICAL BACKGROUND All tables in Annex A are available on line

Annex A1: Indices from the student, school and parent context questionnaires

Annex A2: The PISA target population, the PISA samples and the definition of schools

Annex A3: Standard errors, significance tests and subgroup comparisons

Annex A4: Quality assurance

Annex A5: Development of the PISA assessment instruments

Annex A6: Reliability of the coding of responses to open-ended items



INDICES FROM THE STUDENT, SCHOOL AND PARENT CONTEXT QUESTIONNAIRES

Explanation of indices

This section explains the indices derived from the student, school and parent context questionnaires used in PISA 2009. However in Volume I, only few student indices have been used.

Several PISA measures reflect indices that summarise responses from students, their parents or school representatives (typically principals) to a series of related questions. The questions were selected from larger pool of questions on the basis of theoretical considerations and previous research. Structural equation modelling was used to confirm the theoretically expected behaviour of the indices and to validate their comparability across countries. For this purpose, a model was estimated separately for each country and collectively for all OECD countries.

For a detailed description of other PISA indices and details on the methods, see the PISA 2009 Technical Report (OECD, forthcoming).

There are two types of indices: simple indices and scale indices.

Simple indices are the variables that are constructed through the arithmetic transformation or recoding of one or more items, in exactly the same way across assessments. Here, item responses are used to calculate meaningful variables, such as the recoding of the four-digit ISCO-88 codes into 'Highest parents' socio-economic index (HISEI)' or, teacher-student ratio based on information from the school questionnaire.

Scale indices are the variables constructed through the scaling of multiple items. Unless otherwise indicated, the index was scaled using a weighted maximum likelihood estimate (WLE) (Warm, 1985), using a one-parameter item response model (a partial credit model was used in the case of items with more than two categories). The scaling was done in three stages:

- The item parameters were estimated from equal-sized subsamples of students from each OECD country.
- The estimates were computed for all students and all schools by anchoring the item parameters obtained in the preceding step.
- . The indices were then standardised so that the mean of the index value for the OECD student population was zero and the standard deviation was one (countries being given equal weight in the standardisation process).

Sequential codes were assigned to the different response categories of the questions in the sequence in which the latter appeared in the student, school or parent questionnaires. Where indicated in this section, these codes were inverted for the purpose of constructing indices or scales. It is important to note that negative values for an index do not necessarily imply that students responded negatively to the underlying questions. A negative value merely indicates that the respondents answered less positively than all respondents did on average across OECD countries. Likewise, a positive value on an index indicates that the respondents answered more favourably, or more positively, than respondents did, on average, in OECD countries.

Terms enclosed in brackets < > in the following descriptions were replaced in the national versions of the student, school and parent questionnaires by the appropriate national equivalent. For example, the term <qualification at ISCED level 5A> was translated in the United States into "Bachelor's degree, post-graduate certificate program, Master's degree program or first professional degree program". Similarly the term <classes in the language of assessment> in Luxembourg was translated into "German classes" or "French classes" depending on whether students received the German or French version of the assessment instruments.

In addition to simple and scaled indices described in this annex, there are a number of variables from the questionnaires that correspond to single items not used to construct indices. These non-recoded variables have prefix of "ST" for the questionnaire items in the student questionnaire, "SC" for the items in the school questionnaire, and "PA" for the items in the parent questionnaire. All the context questionnaires as well as the PISA international database, including all variables, are available through www.pisa. oecd.org.

Student-level simple indices

In PISA 2009, study programmes available to 15-year-old students in each country were collected both through the student tracking form and the student questionnaire (STD2). All study programmes were classified using ISCED (OECD, 1999). In the PISA international database, all national programmes are indicated in a variable (PROGN) where the first three digits are the ISO code for a country, the fourth digit the sub-national category and the last two digits the nationally specific programme code.



- The following internationally comparable indices were derived from the data on study programmes:
- Programme level (ISCED1) indicates whether students are (1) primary education level (ISCED 1); (2) lower secondary education level; or (3) upper secondary education level.
- Programme designation (ISCCIDD) indicates the designation of the study programme: (1) = "A" (general programmes designed to give access to the next programme levels; (2) = "3" (programmes designed to give access to vocational studies at the next programme levels; (6) = "C" (programmes designed to give access to the labour market(p. or (4) = "A" (modular programmes that combine any or all of these characteristics.)
- Programme orientation (ISCEDO) indicates whether the programme's curricular content is (1) general; (2) pre-vocational; (3) vocational: or (4) modular programmes that combine any or all of these characteristics.

Occupational status of parents

Occupational data for fortin acident's father and a sudeat's mother were distincted by eating open-ended genetions in the student guestionnia (1933), 57(8), 57(12, 57(13), 57

- Mother's occupational status (BMMJ)
- · Father's occupational status (BFMJ).
- The highest occupational level of parents (HISEI) corresponds to the higher SEI score of either parent or to the only available parent's SEI score.

Educational level of parents

The educational level of parents is classified using ISCED (DECD, 1999) based on students' responses in the student questionnaire (STIO, STI1, STI4 and STI5). Please note that the question format for school education in PISA 2009 differs from the one used in PISA 2000, 2003 and 2006 but the method used to compute parental education is the same.

As in PRA 2000, 2003 and 2006, indices were constructed by velocting the highest level for each parent and then assigning them to the following categories: (6) None; (1) ISCED 1 (primary education), (2) ISCED 2 (lover secondary), (1) ISCED 240 as or 2C loverationally revocational upper secondary), (4) ISCED 34 to paper secondary) and/or ISCED 240 pore tertiary post-secondary). (5) ISCED 350 pocasional tentary, (6) ISCED 350 pocasional tentary,

- Mother's educational level (MISCED).
- · Father's educational level (FISCED).
- . Highest educational level of parents (HISCED) corresponds to the higher ISCED level of either parent.

Highest educational level of parents was also converted into the number of years of schooling (PARED). For the conversion of level of education into years of schooling, see Table A1.1.

Relative grade

Date on the utudenty gode are obtained both from the student questionarian (\$101) and from the student tracking form. As with all variables that are on both the tracking form and the questionarian; inconsistencies between the two sources are reviewed and resolved during data-cleaning, in order to capture between country variation, the validate grade index (GRADE) indicates whether students are at the modal grade in a country value of 03, or whether they are below or above the modal grade level (* x grades, * x reviews).

The relationship between the gade and student performance was estimated through a multifered model accounting for the following bockground variables: i) the PISA index of economic, social and cultural status; ii) the PISA index of economic, social and cultural status equance; iii) the school mean of the PISA index of economic, social and cultural status, iii) an indicator as to whether students were foreign born first-generation students; v) the percentage of first-generation students in the school; and vi) students' gender.

Table A1.2 presents the results of the multilevel model. Column i in Table A1.2 coimasts the core point difference that is associated with one good level (or school year). This difference can be estimated for the 2.0 OECD countries in which a screeche number of 15-year-odds in the 18% samples were emerited in at least two different goods. Since 15-year-odds cannot be assumed to be distributed at random across the goods levels, adjustments had to be made for the above-mentioned contextual factors that may nearly to the screen of a state to the assignment of students to the context of students to the different goods levels. The object mentioned contextual factors that may nearly to the screen of students to the different goods levels. The object mentioned contextual factors that may need to the screen of students to the difference for school mention of the school mentio



		Did not go to school	Completed ISCED Level 1 (primary education)	Completed ISCID Level 2 (fewer secondary education)	Completed ISCED Levels38 or 3C (upper secondary education providing direct access to the labor market or to ISCED 58 programmes)	Completed ISCED Level 3A supper secondary education providing access to ISCED 5A and 5B programmes) and/or ISCED Level 4 (non- tertiary post-accordary)	Completed ISCED Level 5A (university level tertiary education) or ISCED Level 6 (advanced research programmes)	Completed ISCED Level 58 (non-university terfusy educatio
7	Australia	6.0	6.0	10.0	11.0	12.0	15.0	14.0
	Austria	6.0	4.0	9.0	12.0	12.5	17.0	15.0
	Belgjum	0.0	6.0	2.0	12.0	12.0	17.0	14.5
	Canada	0.0	6.0	9.0	12.0	12.0	17.0	15.0
	Chile	0.0	60	8.0	12.0	12.0	17.0	16.0
	Czech Republic	0.0	5.0	9.0	11.0	13.0	16.0	16.0
	Denmark	0.0	6.0	9.0	12.0	12.0	17.0	15.0
	Estonia	8.0	4.0	9.0	12.0	12.0	16.0	15.0
	Finland	0.0	6.0	9.0	12.0	12.0	16.5	14.5
	France	0.0	5.0	9.0	12.0	12.0	15.0	14.0
	Germany	0.0	4.0	10.0	13.0	13.0	18.0	15.0
	Greece	6.0	6.0 4.0	9.0	11.5	12.0	17.0	15.0
	Hungary	0.0	7.0	10.0	10.5	12.0	16.5	13.5
	Iceland Ireland	0.0	6.0	9.0	12.0	17.0	16.0	16.0
	Ireland	6.0	6.0	9.0	12.0	12.0	15.0	15.0
	Italy	8.0	5.0	8.0	12.0	13.0	17.0	16.0
	Japan	8.0	6.0	9.0	12.0	12.0	16.D	14.0
	Korea	6.0	6.0	9.0	12.0	12.0	16.0	14.0
	Luxembourg	8.0	6.0	3.0	12.0	13.0	17.0	16.0
	Mexico	0.0	6.0	9.0	12.0	17.0	16.D	14.0
	Netherlands	0.0	6.0	10.0	2	12.0	16.0	
	New Zealand	0.0	5.5	10.0	11.0	12.0	15.0	14.0
	Nomeny	0.0	6.D	2.0	12.0	12.0	16.D	14.0
	Poland	0.0		8.0	11.0	12,0	16.0	15.0
	Portugal	6.0	6.0	9.0	12.0	12.0	17.0	15.0
	Scotland	0.0	7.0	11.0	13.0	13.0	16.0	16.0
	Slovak Republic	0.0	4.5	8.5	12.0	12.0	17.5	13.5
	Slovenia	0.0	4.0	8.0	11.0	12.0	160	15.0
	Spain	6.0	5.0	8.0	100	12.0	16.5	13.0
	Sweden	0.0	6.0	9.0	11.5	12.0	15.5	14.0
	Switzerland	8.0	6.0	9.0	12.5	12.5	17.5	14.5
	Turkey United Kingdom	0.0	5.0	8.0 9.0	11.0	13.0	15.0	13.0
	United Kington United States	0.0	6.0	9.0	12.0	12.0	16.0	14.0
	Albania	0.0	6.0	9.0	12.0	12.0	16.0	16.0
	Argentina	0.0	6.0	10-9	12.0	12-0	17-0	14.5
	Azerbaijan	6.0	4.0	9.0	11.0	11.0	17.0	14.0
	Brazil	0.0	4.0	8.0	11.0	11.0	16.0	14.5
	Bulgaria	0.0	4.0	8.0	120	12.0	17.5	15.0
	Colombia Croatia	0.0	5.0 4.0	30	11.0	11.0	15 5 17.0	14 0 15.D
	Croatia Dubai (UAE)	0.0	5.0	3.0	11.0	12.0	17.D 16.D	15.0 15.0
	Hong Kong- China	0.0	6.0	3.0	11.0	13.0	16.0	14.0
	rieng kong- Crisa Indoresia	0.0	6.0	9.0	12.0	12.0	15.0	14.0
	tordan	0.0	6.0	10.0	12.0	12.0	16.0	14.5
	Kazakhstan	80	40	9.0	11.5	12.5	15.0	140
	Kyrgyzstan	6.0	4.0	8.0	11.0	10.0	15.0	13.0
	Latvia	0.0	3.0	8.0	11.0	11.0	16.0	16.0
	Liechtenstein	0.0	5.0	9.0	11.0	13.0	17.0	140
	Lithurnis	0.0	3.0	8.0	11.0	11.0	16.0	15.0
	Macao-China	0.0	6.0	9.0	11.0	12.0	16.0	15.0
	Montenegro	0.0	4.0	80	11.0	12.0	160	15.0
	Panama.	0.0	6.0	9.0	12.0	12.0	16.0	9
	Penu	8.0	6.0	9.0	11-0	18-0	17.0	14.0
	Qatar	0.0	6.0	9.0	12.0	12.0	16.0	15.0
	Romania	0.0	4.0	8.0	11.5	12-5	16.0	14.0
	Russian Federation	0.0	4.0	9.0	11-5	12.0	15.0	a
	Serbia	8.0	4.0	5.0	11.0	12.0	17.0	14.5
	Shanghai-China	0.0	6.0	9.0	12.0	12.0	16.0	15.0
	Singapore	8.0	6.0	5.0	10.5	10.5	12.5	12.5
	Chinese Taiper	0.0	6.0	9.0	12.0	12.0	16.0	14.0
	Thailand	0.0	6.0	9.0	12.0	12.0	16.0	14.0
	Trinidad and Tobago Tunisia	0.0	5.0	9.0	12.0	12.0	16.0	15.0
	Tunisia Urugany	0.0	6.D 6.D	2.0	12.0	13.0	17.D 17.D	16.0 15.0



[Part 1/1]
Table A1.2 A multilevel model to estimate grade effects in reading accounting for some background variables

_	Table A1.2	A mu	Itilevel	mou		-	e grace	-		waining	accou.	rung i	01 2011	e Duc	kgroui	10 4411	apies
		c	rade	of co	des nomic, al and al status	soci	ex of somic, al and al status sared	of ec	hool nindex normic, al and al status	First G	eneration dents	percer first se	nool stage of neration dents	504	eler – de at iemale	Inte	rcept
		Coeff	SE	Coeff	SE	Coeff	S.E.	Coeff	3.8	Coeli	3.2	Coeff	3.2	Coeff	3.8	Coeff	3.2
OLCO	Australia	33.2	(1 95)	30.0	(1.36)	-3.8	(1.05)	66,4	(1.87)	-7.4	(2.82)	0.1	(0.07)	32.9	(1.91)	466.0	(1,39)
ă	Austria	35.3	(2.18)	11.4	(1.66)	-0.5	(1.00)	89.7	(3.86)	-33.1	(6.11)	1.4	(0.13)	19.9	(2.67)	467.9	(2.45)
	Belgium	48.9	(1.96)	10,0	(1.12)	-01	(0.63)	79.9	(173)	-32	(5,18)	03	(0:11)	11.3	(181)	507.0	(1.70)
	Canada	45.0	(2 14)	19.4	(1.52)	1,5	(0.91)	33.9	(2.28)	-13.7	(3.16)	0.3	(0:04)	30,4	(1.60)	483.4	(1.76)
	Chile	35.5	(1.55)	8.6	(1.52)	0.3	(0.63)	37.4	(1.61)	c	c	c	E	13.5	(2.33)	478 b	(1 60)
	Czech Republic	41.5	(3.35)	13.4	(1.89)	-2.3	(1.47)	111.5	(3.12)	-8.9	[12.25)	0.4	(0.33)	32.3	(2.84)	460.7	(2.39)
	Dermark Extensis	36.1	(3.02)	27.9	(1.51)	-28	(1.10)	35.1	(2.91)	-37.5	(5.97)	0.0	(0.14)	25.5	(2.59)	474.D	(1.55)
	finland	37.3	(3 60)	27.7	(1.66)	-2.5	(1.43)	10.4	(5.28)	-18.7 -56.0	[14 (8)	-3.3	(0.44)	51.5	(2.45)	185.8	(2.02)
	Finland	47.1	(5.14)	12.5	(1.66)	-2.5	(1.12)	81.6	(3.28)	-11.6	(13 099	-0.1	(0.15)	25.9	(2.47)	516.5	(2.02)
	Germany	34.4	(1.74)	92	(1.23)	-14	(9.74)	109.1	(2.16)	-1122	(4,80)	0.2	(0-12)	27/2	(1.92)	458.0	(7.46)
	Greece	22.6	(10-86)	15.9	(1.46)	1.5	(1.07)	41.2	(2.84)	-15.0	(7.82)	0.0	(0 1.6)	36.3	(2.55)	469.0	(2.04)
	Hungary	25-6	(2-19)	8.3	(1.39)	0.9	(9.87)	74.8	(2.09)	2.8	(7.92)	0.0	09 279	21,4	(2.22)	4941	(1.65)
	Iceland	25-6	(2-19)	29.8	(2.56)	-5-1	(1-56)	-3.6	(5-12)	-52.2	[11-45)	-1.3	(0-40)	44.9	(2.59)	469.1	(4-23)
	treland	18.2	(1.99)	29.7	(1.78)	-3.5	(1.44)	43.6	(2.68)	-32.8	(6,52)	-0.1	(0 20)	33.9	(3,62)	474.8	(2,77)
	tend	16.6	(3.85)	19.9	(1.90)	3.4	CLOR	104.7	(2.10)	-11.0	(5.13)	1.5	00-060	29.4	(2.81)	460.1	(2.13)
	Italy	36.1	(1.62)	4.5	(1.50)	-1.4	(2) (22)	26.4	(1.07)	-11/0	(3.36)	0.2	(0.08)	24.0	(1.29)	491.4	40.853
	lapan	30.1	(1.07)	4.1	(1.51)	0.1	(1.47)	144.2	(2.60)	-227	(3.36)	0.2	(area)	27.0	(2.43)	508.6	(1.58)
	Korea	35.2	(9.27)	12.9	(1.42)	1.9	(1.18)	64.9	(2.24)					30.6	(3.21)	537.7	(2.08)
	Lusembourg	453	(1.95)	166	(6.31)	-2.6	(1.06)	62.0	(2.8%)	-10.4	(5.10)	-0.7	m.1m	33.0	(2.22)	435.7	(2.40)
	Mexico	32.6	(1.39)	7.5	(0.52)	0.5	(0.34)	27.8	(0.80)	-41.9	(6,76)	-1.8	(0.15)	17.9	(1,03)	473.7	(1,02)
	Netherlands	26.6	(2.00)	6.0	(1.52)	-1.2	(1,02)	106.7	(2.32)	-11.6	(5.77)	1.7	00.140	15.1	(1.85)	484.5	(2.33)
	New Zealand	44.2	(4.15)	38.9	(1.82)	-1.7	0.40	56.3	0.35	-12.2	(3.89)	0.0	(0.10)	44.0	(2,42)	426.5	(2.44)
	Norman	17.6	17/8.159	14.2	(2.00)	-3.4	(1.62)	31.1	(4.32)	-11.4	(7,52)	0.4	(0.75)	48.3	(2.56)	451.2	(2.87)
	Poland	71.0	(4.44)	29.4	(1.59)	-16	(1.21)	19.4	(2.99)	C			c	44.2	(241)	4989	(1.69)
	Portugal	48.9	(1.71)	12.0	(2.94)	1.0	02640	21.3	(1.33)	-5.3	6.29	0.0	(0.23)	22.9	(1.84)	518.6	(1.92)
	Slovak Republic	34.2	(3.85)	14.7	(1.44)	-3.2	02560	643	65.340	- 0	c		0	39.1	(2,58)	483.2	42,330
	Slovenia	22-8	(3.41)	4.8	(1.28)	0.0	(1-25)	100.2	(2.74)	-23.4	(7.48)	-0.2	(0.24)	27.7	(2.16)	452.6	(1.63)
	Spain	61.7	(1.22)	9.8	(0.83)	0.4	(0.64)	22.7	(1.25)	-29.7	(2.86)	0.4	00-040	18,0	(1,42)	511.3	(1,07)
	Sweden	63.8	(6.65)	31.4	(1.82)	-1.3	(1.04)	49.0	(6.55)	-38.8	(8.53)	0.3	(0.34)	43.2	(2.41)	454.6	(3.62)
	Switzerland	45.5	(2.75)	18.2	(127)	-10	(1.23)	59.5	(2-95)	-25.1	(3.99)	-0.7	(0.11)	27.0	(2.00)	4888	(1.50)
	Turkey	33-7	(1.96)	77	(1.50)	0.3	(0.61)	463	(1.70)	0	c	c	c	27.9	(1.24)	524-0	(1.59)
	United Kingdom	35.9	(6.21)	27.7	(2.01)	-0.1	(1.51)	85-7	(2.45)	-13.6	(8.49)	-0.3	(013)	23.1	(2.48)	468.7	(1.23)
	United States	36.3	(217)	23.5	(1.70)	4.4	(1.15)	50.4	(2.56)	-5.4	(5.57)	0.8	(0.14)	25.4	(2.36)	463.5	(2.01)
_	Albania	11.0	(5.07)	20.5	0.00	12	0.15	410	(2.42)	-	-	-		54.5	£1.400	421.5	71.440
200	Argentina	11.6	(2.50)	11.2	(1.96)	02	(0.87)	57.6	(2,47)	-27.0	UB 570	2.0	m 200	24.0	(2.38)	421.5	(2.17)
Perfines	Azerbaijan	13.2	(1.78)	10.5	(1.47)	1.3	(0.50)	36.4	(2.00)	-25	(12.34)	-0.3	(0.459)	22.6	(2.16)	390.9	(2.12)
-	Brazil	10.1	(1.23)	7.7	(1.50)	1.3	(0.57)	38.1	(1,25)	-71.7	(17.16)	-09	(0.47)	20.2	(1.63)	445.5	(1.13)
	Bulgaria	27.0	(5.08)	15.7	(1.93)	0.2	(1.29)	75.7	(3.99)	71.5	(I) 140	6	(0.47)	42.1	(3.51)	423.7	(2.61)
	Colombia	11.2	(1.12)	6.0	(7.01)	0.9	(0.77)	39.4	(1.53)				c	3.2	(2.17)	477.7	(1.63)
	Cmatia	31.6	(233)	10.3	(1.36)	-40	(3.99)	25.3	(2.01)	-13.0	(5.71)	-0.1	(0.22)	31.4	(2.56)	472.8	(1.69)
	Duhai (UAF)	34.6	(1.56)	15.2	(1.52)	3.2	(1.03)	25.9	(3.13)	21.5	(3.25)	1.1	(20.0)	28.2	(3.94)	362.6	(2.92)
	Hong Kong-China	33.6	(2.03)	.09	(1.70)	-10	(0.76)	41.9	0.60	23.4	(3.70)	-0.4	(0.05)	21.9	(2.42)	575.8	(1.83)
	Infoncsia	14.4	(2.00)	4.7	(2.44)	0.9	(2.62)	29.1	(1-83)	C	C	c	C	28.0	(1,48)	430.8	(2.46)
	terdan	47.6	(6.38)	17.7	(1.52)	0.7	(18.0)	26.9	(1.55)	-11.5	(7.50)	40.2	(0.20)	48.1	(2.73)	4155	17.00
	Kazakhutan	22.2	(2.42)	16-2	(2-12)	-17	0.30	55.7	(2.70)	-12.2	(9.78)	00	(0 10)	38.1	(2-23)	411.1	(1.57)
	Kyryyzstan	20.8	(2.92)	18.3	(2.23)	1.7	(1.10)	75.2	(2.03)	-23.4	(21.78)	3.3	(0.50)	46.0	(2,45)	345.7	(1.83)
	Latvia	43.8	(3.07)	16.2	(1.85)	-08	(1.35)	37.0	[2.77]		E	c	E	38.9	(2.36)	479.6	(1.77)
	Liechtenstein	23.8	(7.40)	2.1	(4.18)	-5.3	(3,07)	112.5	(12.17)	-12.6	(10.22)	-0.7	(0.44)	20.3	(0.56)	499.8	45 42)
	Lithannia	27.4	(2.87)	18-1	(1.56)	0.2	(1.00)	44.0	(2.45)	C	C	c	c	51.1	(2.34)	447.6	(1.87)
	Macao-China	36.7	(1.01)	1.8	(1.61)	-1.1	(0.78)	10	(4.75)	16.7	(2.17)	-01	(0.23)	14.1	(1.51)	511 D	(3.47)
	Montenegro	22.9	(3.44)	12.1	(1.38)	-03	(1.05)	64.2	(6.54)	-1.8	(6.65)	-1.2	(9-32)	39.3	(2.63)	409.5	(2.58)
	Parterna	32.6	(3.41)	7.9	(2.42)	1.2	(9.79)	45.8	(2.60)	-3.4	(10.77)	-14	(9.16)	15.0	(4.48)	431.3	(3.22)
	Penu	27.5	(1.23)	10-5	(2.05)	0.9	03-640	47.2	(1,46)	c	c	c	c	8.3	(2-17)	445.6	(1.59)
	Qutar	30-7	(1.70)	5.3	(0.56)	0.4	(0.85)	12.7	(2.91)	31.5	(2.96)	17	(0.07)	31-4	(3.71)	302.5	(2.94)
	Romania	19.6	(4.19)	10.7	(1.63)	-03	(9.79)	63.9	(2.34)	c	c	c	c	13.7	(2.56)	446.4	(1.70)
	Russian Federation	31.0	(2.01)	18.2	(1-93)	-16	(1,40)	38-8	(3.32)	-91	(5.86)	-0.4	(0:22)	38-7	(2.28)	452.9	(1.89)
	Scrbin	21.3	(4-48)	9.2	(1.25)	-0.8	(2.74)	55.1	(3.42)	1.2	(5.65)	0.3	(0.13)	27.1	(2.22)	425 1	(1.60)
	Shanghai-China	21.8	(3.34)	4.6	(1.41)	01	(0.85)	57.3	(1.48)	c	c	c		29.3	(198)	583.5	(2.04)
	Singapore	28.9	(2.09)	22.2	(2.15)	-2.8	(1.14)	104.7	(2.06)	0.4	(4.21)	-10	(0.13)	24.6	(2.57)	590.2	(2.76)
	Chinese Taipei	15-4	(412)	15.5	(1.50)	-12	(1.05)	82.8	(1.06)	c	c	c	С	36.8	(2.25)	515.6	(2.03)
	Thailand	22-1	(2.05)	10.4	(1.54)	2.4	(2.56)	28.8	(1.31)	A				313	(1.78)	454.6	(1-67)
	Trinidad and Tobago	35-3	(1.60)	-0.6	(2.00)	-0.2	(0.91)	123.2	(3.42)	-9.2	[13.599	-0.7	(0.26)	49.4	(2.90)	484.9	{2.77}
	Tunisia	49.7	(1.57)	3.7	(1.76)	0.7	(2.56)	17.8	(1.25)	С	E	c	E	14.4	(1.84)	449.6	(1.63)
	Urugsay	41,4	(1.49)	12.4	(1,58)	0.5	(0.75)	29.7	(1.58)					30.1	(2.46)	464.2	(2,29)

ICES FROM THE STUGENT, SCHOOL AND PARENT CONTEXT QUESTIONNAIRES



While it is possible to estimate the typical performance difference among students in two adjacent grades net of the effects of selection and contextual factors, this difference cannot automatically be equated with the progress that students have made over the last school year but should be interpreted as a lower boundary of the progress achieved. This is not only because different students were assessed but also because the content of the PISA assessment was not expressly designed to match what students had learned in the preceding school year but more broadly to assess the cumulative outcome of learning in school up to age 15. For example, if the curriculum of the grades in which TS-year-olds are enrolled mainly includes material other than that assessed by PISA (which, in turn, may have been included in earlier school years) then the observed performance difference will underestimate student progress.

Immigrotion

Information on the country of birth of students and their parents (ST17) is collected in a similar manner as in PISA 2000, PISA 2003 and PISA 2006 by using nationally specific ISO coded variables. The ISO codes of the country of birth for students and their parents are available in the PISA international database (COBN_S, COBN_M, and COBN_F).

The index on immigrant background (IMMIG) has the following categories: (1) native students (those students born in the country of assessment, or those with at least one parent born in that country; students who were born abroad with at least one parent born in the country of assessment are also classified as 'native' students', (2) second-generation students (those born in the country of assessment but whose parents were born in another country), and (3) first-generation students (those born outside the country of assessment and whose parents were also born in another country). Students with missing responses for either the student or for both parents, or for all three questions have been given missing values for this variable.

Student-level scale indices

Fomily weolth

The index of family wealth (WEALTH) is based on the students' responses on whether they had the following at home: a room of their own, a link to the Internet, a dishwasher (treated as a country-specific item), a DVD player, and three other country-specific items (some items in ST20); and their responses on the number of cellular phones, televisions, computers, cars and the rooms with a bath or shower (ST21).

Home educational resources

The index of home educational resources (HEDRES) is based on the Items measuring the existence of educational resources at home including a desk and a quiet place to study, a computer that students can use for schoolwork, educational software, books to help with students' school work, technical reference books and a dictionary (some items in ST20).

Cultural passessions

The index of cultural possessions (CULTPOSS) is based on the students' responses to whether they had the following at home: classic literature, books of poetry and works of art (some items in ST20).

Economic, social and cultural status

The PISA index of economic, social and cultural status (ESCS) was derived from the following three indices: highest occupational status of parents (HISEI), highest educational level of parents in years of education according to ISCED (PARED), and home possessions (HOMEPOS). The index of home possessions (HOMEPOS) comprises all items on the indices of WEALTH, CULTPOSS and HEDRES, as well as books in the home recoded into a four-level categorical variable (0-10 books, 11-25 or 26-100 books, 101-200 or 201-500 books, more than 500 books).

The PISA index of economic, social and cultural status (ESCS) was derived from a principal component analysis of standardised variables (each variable has an OECD mean of zero and a standard deviation of one), taking the factor scores for the first principal component as measures of the index of economic, social and cultural status.

Principal component analysis was also performed for each participating country to determine to what extent the components of the index operate in similar ways across countries. The analysis revealed that patterns of factor loading were very similar across countries, with all three components contributing to a similar extent to the index. For the occupational component, the average factor loading was 0.80, ranging from 0.66 to 0.87 across countries. For the educational component, the average factor loading was 0.79, ranging from 0.69 to 0.87 across countries. For the home possession component, the average factor loading was 0.73, ranging from 0.60 to 0.84 across countries. The reliability of the index ranged from 0.41 to 0.81. These results support the crossnational validity of the PISA index of economic, social and cultural status

The imputation of components for students missing data on one component was done on the basis of a regression on the other two variables, with an additional random error component. The final values on the PISA index of economic, social and cultural status (ESCS) have an OECD mean of zero and a standard deviation of one-



ANNEX A2

THE PISA TARGET POPULATION, THE PISA SAMPLES AND THE DEFINITION OF SCHOOLS

Definition of the PISA target population

PISA 2009 provides an assessment of the cumulative yield of education and learning at a point at which most young adults are still enrolled in initial education.

A major challenge for an international survey is to ensure that international comparability of national target populations is guaranteed in such a venture.

Differences between countries in the nature and extent of pre-primary education and care, the age of entry into formal schooling and the institutional structure of reducational systems do not allow the definition of internationally comparable parks breviol to a transport of the contribution of the primary of the primary

In order to address this problem, PSA uses an age-based definition for its target population, i.e. a definition that is not test to the immittediend structures of rational efsections of postures. PSA assesses activates whose were agreed between 15 years and 2 (complete) moreths and 16 years and 2 (complete) more an

Chen this definition of population, PSA makes statements about the knowledge and skills of a group of individuals who were how within a companie fereferore period, but how may how undergon different electronal experiences belief in and outside of schools. In PSA, those knowledge and skills are referred to as the yield of education at an age that is common across countries. Depending on countrie's placies on school entry, selection and promotion, these students may be distributed over a narrower or a water range of guides across different education systems, tacks or steams. It is important to consider these differences when companing PSA results across countries, as observed differences between students of a ge 15 may no longer appear as students' educational experiences converge later or.

If a country's scale scores in ending, scientific or mathematical literacy are significantly higher than have in another country, it cannot automatically be inferred than the cholor operatural parts of the education synetic in the first country are more effective than those in the second. However, one can legislimately conclude that the comulative impact of learning operators in the first country, starting in early children's and such parts of the size of St, and embassing experiences both in school, home and beyond, have resulted in higher outcomes in the literacy domains that ISS means.

The PISA target population did not include residents attending schools in a foreign country. It does, however, include foreign nationals attending schools in the country of assessment.

To accommodate countries that desired grade-based results for the purpose of national analyses, PISA 2009 provided a sampling option to supplement age-based sampling with grade-based sampling.

Population coverage

All countries attempted to maximize the coverage of 15-year-olds enrolled in education in their national samples, including students enrolled in special educational institutions. As a result, PISA, 2009 reached standards of population coverage that are unprecedented in international surveys of this kind.

The sampling standards used in PSA permitted countries to exclude up to a total of SNs of the relevant population either by excluding standards within schools. All but 3 countries, Demark (8.77%), Learnbourg (8.17%), Canada (8.07%), Oxnowy (5.97%) of the United States (5.17%), Scholered this standard, and in 36 countries and economies, the cereal exclusion rate was less than 2%. When language exclusions were accounted for (i.e. removed from the overall exclusion rate, the State so Congrid and exclusion are greated than 5% for debtals, see waveplaceacides.



Exclusions within the above limits include:

population that the PISA sample represents.

- At the school level: it schools that were geographically inaccessible or where the administration of the PISA assessment was not considered (easible; and ii) schools that provided teaching only for students in the categories defined under "within-school exclusions", such as schools for the blind. The percentage of 15-year-olds enrolled in such schools had to be less than 2.5% of the nationally desired target population (0.5% maximum for i) and 2% maximum for iii). The magnitude, nature and justification of school-level exclusions are documented in the PISA 2009 Technical Report (OECD, forthcoming).
- At the student level: i) students with an intellectual disability; ii) students with a functional disability; iii) students with limited assessment language proficiency: Aylother - a category defined by the national centres and approved by the international centre: and v) students taught in a language of instruction for the main domain for which no materials were available. Students could not be excluded solely because of low proficiency or common discipline problems. The percentage of 15-year-olds excluded within schools had to be less than 2.5% of the nationally desired target population.

Table A2.1 describes the target population of the countries participating in PISA 2009. Further information on the target population and the implementation of PISA sampling standards can be found in the PISA 2009 Technical Report (OECD, forthcoming).

- Column 1 shows the total number of 15-year-olds according to the most recent available information, which in most countries meant the year 2008 as the year before the assessment.
- Column 2 shows the number of 15-year-olds enrolled in schools in Grade 7 or above (as defined above), which is referred to as the eligible population.
- Column 3 shows the national desired target population. Countries were allowed to exclude up to 0.5% of students a priori from the eligible population, essentially for practical reasons. The following a priori exclusions exceed this limit but were agreed with the PISA Consortium: Canada excluded 1.1% of its population from Territories and Aboriginal reserves; France excluded 1.7% of its students in its territoires d'outre-mer and other institutions; Indonesia excluded 4.7% of its students from four provinces because of security reasons; Kyrgyzstan excluded 2.3% of its population in remote, inaccessible schools; and Serbia excluded 2% of its students taught in Serbian in Kosovo.
- Column 4 shows the number of students enrolled in schools that were excluded from the national desired target population either from the sampling frame or later in the field during data collection.
- Column 5 shows the size of the national desired target population after subtracting the students enrolled in excluded schools. This is obtained by subtracting Column 4 from Column 3.
- Column 6 shows the percentage of students enrolled in excluded schools. This is obtained by dividing Column 4 by Column 3 and multiplying by 100. Column 7 shows the number of students participating in PISA 2009. Note that in some cases this number does not account for
- 15-year-olds assessed as part of additional national options. Column 8 shows the weighted number of participating students, i.e. the number of students in the nationally defined target
- Each country attempted to maximise the coverage of PISA's target population within the sampled schools. In the case of each sampled school, all eligible students, namely those 15 years of age, regardless of grade, were first listed. Sampled students who were to be excluded had still to be included in the sampling documentation, and a list drawn up stating the reason for their exclusion. Column 9 indicates the total number of excluded students, which is further described and classified into specific categories in Table A2.2. Column 10 indicates the weighted number of excluded students, i.e. the overall number of students in the nationally defined target population represented by the number of students excluded from the sample, which is also described and classified by exclusion categories in Table A2.2. Excluded students were excluded based on five categories: i) students with an intellectual disability - the student has a mental or emotional disability and is cognitively delayed such that he/she cannot perform in the PISA testing situation; ii) students with a functional disability - the student has a moderate to severe permanent physical disability such that he/she cannot perform in the PISA testing situation; iii) students with a limited assessment language proficiency - the student is unable to read or speak any of the languages of the assessment in the country and would be unable to overcome the language barrier in the testing situation (typically a student who has received less than one year of instruction in the languages of the assessment may be excluded); iv) other - a category defined by the national centres and approved by the international centre; and v) students taught in a language of instruction for the main domain for which no materials were available.
- Column 11 shows the percentage of students excluded within schools. This is calculated as the weighted number of excluded students (Column 10), divided by the weighted number of excluded and participating students (Column 8 plus Column 10), then multiplied by 100.



[Part 1/2] Table A2.1 PISA target populations and samples

_			population			nd sample information			
					Population at	nd sample information			
		Total population of 15-year-olds	Total enrolled population of 15-year-olds at Crade 7 or above	Total is national desired target population	Total school-level cuclusions	Total in national desired target population after all school reclasions and before within-school exclusions	School-level enclusion rate (%)	Number of participating students	Weighted number of participating students
		(1)	(2)	(0)	(4)	(3)	(6)	(7)	(6)
8	Austria Austria	286 334	269 469	269 669	7.057	262 612	2.62	14 251	240.851
õ.	Austria Belgium	99 818 126 377	94 192	94 192	2474	94 077 123 864	1.96	6 590 8 501	87 326 119 140
	Canada	430 791	426 590	422 052	2 370	619 682	0.56	23 207	160 286
	Chile	290.056	265 542	265 463	2 594	262 869	0.98	5 669	247 270
	Crech Republic	122 027	116 153	116 153	1.619	116 534	1.39	6.064	113 951
	Dermark	70 522	68 897	68 897	3 062	65 815	4.47	5 924	60 835
	Estonia	14 248	14 106	14 106	436	13 670	3.09	4 727	12 978
	Finland	66 198	66 198	66 198	1 507	64 691	2.28	5 810	61 463
	France	749 808 852 044	732 825 852 044	720 187 852 044	18 841	701 3 46 844 506	2.62	4 298	677 620 765 993
	Germany	102 229	105 664	105 664	7138	104 968	0.66	4 979	93.088
	Hungary	121 155	318 387	118 387	3 322	115 065	2.81	4 605	105 611
	terind	4 738	4.738	4.736	20	4.718	0.62	3.646	4 410
	Ireland	56 635	55 464	55 446	276	55 170	0.50	3 937	52 794
	Israel	122 701	112 254	112 254	1 570	110 684	1.40	5 761	103 184
	Italy	586 904	573 542	573 542	2 694	570 848	0.47	30 905	506 733
	Jahau	1 211 642	1 189 263	1 189 263	22 955	1 166 308	1.93	6 068	1 113 403
	Korea Luxembourg	717 164 5 864	700 226	700 226 5 623	2 927	697 299 5 437	0.42	4 989	5 124
	Mexico	2 151 771	1 425 397	1 425 397	5 825	1 419 572	041	4 622 38 250	1 305 461
	Netherlands	199 000	198 334	198 334	6179	192 155	3.12	6.760	183 546
	New Zealand	63 460	60.083	60 083	645	59 438	1.07	4 643	55 129
	Norway	63 352	62 948	62 948	1.400	61 548	2.22	4 660	57.367
	Poland	482 500	473 700	473 700	7 650	466 050	1.61	4 917	448 866
	Portugal	115 669	107 583	107 583	0	107 543	8-80	6 298	96 820
	Slovak Republic	72 826	72 454	72 454	1 803	70 651	2.49	4 555	69 274
	Slovenia	20 314	19 571 425 336	19 571 425 336	3 133	19 397 422 200	0.89	6 155 25 887	18 773 387 054
	Sprin Sweden	121 486	121 216	121 216	2 323	118 893	1.92	4 567	113 054
	Switzerland	90 623	89.423	89 423	1 747	87 676	1.95	11 612	80.639
	Turkey	1 336 842	859 172	859 172	8 569	850 600	1.00	4 996	757 298
	United Kingdom	786 626	786 825	786 825	17 593	769 232	2.24	12 179	683 380
	United States	4 103 738	4 210 475	4 210 475	15 199	4 195 276	0.36	5 233	3 373 264
*	Albania	55 587	42 767	42.767	3.72	42 395	0.87	4 596	34 134
Partners	Argentina	688 434	636 713	636 713	2 238	634 475	0.35	4.774	472 106
ā	Azerbaijan	185 481	184 980	184 989	1 354	183 094	1.02	4 727	105 886
	Brazil	3 292 022	2 654 489	2 654 489	15 571	2 638 918	0.59	20 127	2 080 159
	Bulgaria	80 226	70 688	70 688	1367	69 319	1.94	4 507	57 833
	Colombia Croatia	893 057 48 491	582 640 46 256	582 640 46 256	412	582 228 45 721	1.16	7 921	522 388 43 065
	Duhai (UAE)	10 564	10 327	10 327	167	10160	1.62	5 620	9 179
	Hong Kong-China	85 000	78 224	78 224	809	77.415	1.01	4 837	75 548
	Indonesia	4 267 801	3 158 173	3 010 214	10.458	2 999 756	D 35	5 136	2 259 118
	Jordan	117 732	107 254	107 254	0	107 254	0.00	6 486	104 056
	Kazakhsten	281 659	263 206	263 206	7 210	235 996	2.74	5 412	250 657
	Kyrgyzstan Latvia	116 795	93 989 28 149	91 793 28 149	1149	90 644 27 206	1.25	4 986	78 493 23 362
	Lirchtenstein	28 749	28 149	28 149	943	27 200	139	4 502	23 362
	Litherenia	51.822	43.967	43.967	522	43 445	1.19	4 528	40 530
	Macao-China	7 500	5 969	5 949	3	5 966	0.05	5 952	5 978
	Montenegro	8 500	8 493	8 493	10	8 483	0.12	4 825	7 728
	Panama	57 919	43 623	43 623	501	43 122	1.15	3 969	30 510
	Peru	585 567	491.514	490 840	984	489 856	8.20	5 985	427 607
	Qutar Remania	10 974	10 465	10 665	114	10 551	1.07	9 078	9 806
	Russian Federation	152 084	1 667 460	152 084	25 012	151 405	1.50	5 308	151 130
	Serbia	85 121	75 128	73 628	1.580	72 048	2.15	5 523	70 796
	Shanghai-China	112 000	100 592	100 592	1 287	99 305	1.28	5 115	97.045
	Singapore	54 982	54 212	54 212	433	53 579	1.17	5 283	51 874
	Chinese Taiper	329 249	329 189	329 189	1 778	327 411	0.54	5 831	297 203
	Thailand	949 891	763 679	763 679	8 438	755 241	1.10	6 225	691 916
	Trinidad and Tobago	19 260	17.768	17.768	0	17.768 153.914	0.00	4 278	14 938 136 545
	Urugasy	53 801	43 281	43 281	30	43 251	0.07	5 957	33 971

Note: For a full explanation of the debit's in this table, please refer to the PSA 2009 Rechnical Report (DCC), forthcoming: The figure for total national population of 15-year-olds enrolled in Column 1 may occasionally be larger than the total number of 15-year-olds in Column 2 due to differing data sources. In Greece, Column 1 does not actually emergenish bac Column 2 does.

Station | 100 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 11



[Part 2/2] PISA target pop

			Populative and sa	mple information			Coverage indices				
		Number of excluded stadents	Weighted number of excluded students	Within-school exclusion rate (%)	Overall exclusion rate (%)	Coverage index 1: Coverage of national desired population	Coverage index 2: Coverage of national enrolled population	Coverage index 3 Coverage of 15-year-old population			
		(9)	(10)	(11)	(12)	(13)	(14)	(15)			
9	Australia.	313	4 389	1,29	436	0.956	0.956	0.841			
š	Austria	45	607	0.69	0.81	0.992	0.992	0.875			
١	Belgium	30	292	6.24	2.20	0.978	0.978	0.943			
	Canada	1 602	29 837	5.47	8.00	0.940	0.930	D 836			
	Chile	15	620	0.25	1.22	0.988	0.987	0.852			
	Czech Republic	24	423	0.37	1.76	0.982	0.982	0.934			
	Denmark	296	2 448	3.87	8.17	0918	0,918	0.863			
	Estonia	32	97	0.74	3.81	Q962	0.962	0.911			
	Finland	77	717	1.15	3.40	0.966	0.966	0.928			
	France	1	304	6.04	2.66	0.973	0.957	0.904			
	Germany	28	3 591	0.47	1.30	0.987	0.987	0.900			
	Greece	142	2 977	3.10	3.74	0963	0.963	0.911			
	Hungary	10	361	0.34	3.14	0.969	0.969	0.872			
	Iceland	187	189	410	4 50	D955	0.933	0.931			
	treland	136	1 492	2.75	3.23	0.968	0.967	0.932			
	Israel	86	1 3 9 9	130	2.68	0.973	0.973	0.841			
	Italy	561	10 663	2.06	2 52	0.975	0.975	0.863			
	apan	0	0	6.00	1.93	0.981	0.981	0.919			
	Korca	16	1 748	0.28	0.69	0.993	0.993	0.879			
	Luxenbourg	196	270	5.01	8.15	0.919	0.919	0.674			
	Mexico	52	1951	0.15	0.56	0.994	0.994	0.607			
	Netherlands	19	648	0.35	3.46	0.965	0.965	0.922			
	New Zealand	184	1793	3.15	4 19	0.958	0.958	0.869			
	Normay	207	2 260	3.79	5.93		0.941	0.906			
	Poland	15	1 230	0.27	1 88	0.981	0.551	0.930			
	Portugal	115	1 544	1.57	1.57	0984	0.984	0 837			
	Slovak Republic	106	1516	2.14	4.58	0.954	0.954	0.951			
	Slovenia	43 775	138	0.73 3.17	1.61	D984	0.984	0.924 0.893			
	Spain	146	3 360								
	Sweden Switzerland	209	3 3 6 0	2.89	1.00	Q953 Q969	0.953	0.931			
			1.497	0.20	1.12	0188	0.989	0.892			
	Turkey United Kingdom	318	17 094	2,44	1 19	0.954	0.988	0.869			
	United Kingdom United States	315	17054	4.81	5 16	Q948	0.948	0.822			
	Albania	0	0	6.60	0.87	0.991	0.991	0.614			
	Argentina	14	1 225	0.26	0.61	0.994	0.994	0.686			
	Azerbaijan	0	0	0.00	1.02	0.990	0,990	0.571			
	Brazil	24	2 692	6.13	0.72	D 993	0.993	0.632			
	Bulgaria	0	0	0.00	1.94	0.981	0.581	0.721			
	Colombia	11	490	6.09	0.16	D:998	0.998	0.585			
	Croatia	34	273	6.63	1 78	0.982	0.982	0.858			
	Dubai (UAI)	5	119	6.07	1,19	0.983	0.983	0.869 0.899			
	Hong Kong-China		119								
	Indozesia Iordan	0 24	440	6.00	0.35	0.997 0.998	0.950	0.529 0.884			
	jornus Kazakhsten	82	3 844	1,51	4.21	0.958	0.996	0.890			
	Kazakhilan Kyrgyzstan	82	1384	1,23	296	0.958	0.958	0.672			
	Kyrgyzstan Latvia	19	102	6.43	3.77	09/0	0.948	0.672			
	Liechtenstein	0	0	0.00	139	0.386	0.986	0.013			
	Lithuania	74	632	1.53	2.70	0.973	0.973	0.782			
	Macao-China	0	0	0.00	0.05	0.993	0.999	0.797			
	Montenegro			0.00	0.12	0.999	0.000	B 909			
	Panama	0	0	6.00	1,15	0,589	0.989	0.527			
	Portu	9	558	0.13	0.33	0.507	0.935	0.730			
	Qutar	28	28	6.28	1.35	0.986	0.986	0.894			
	Romania.	0	0	0.00	0.45	0.996	0.996	0.994			
	Russian Federation	59	15 247	1.17	2.65	0.973	0.973	0.771			
	Serbia	10	133	0.19	2.33	0977	0.957	0.832			
	Shanghai-China	7	130	6.13	141	0.986	0.986	D 866			
	Singapore	48	417	6.80	1.96	0.980	0.980	0.943			
	Chinese Tripei	32	1 662	0.56	1.09	0.589	0.989	0.903			
	Thailand	6	458	6.67	1,17	0.988	0.988	0.728			
	Trinidad and Tobago Tunina	11	36 184	0.24	024	0.998	0.998	0.776			

Note for all registration of the detain in the table joins when to the PRA, 2009 Schward Ripped SACCO, forthwarmly the figure for tail national population of 15-byte-colds empired in claims 1 my consecutable in larger than that number of 15-year-cides no Column 2 date to differing date sources in Greece, Column 3 dates in registrate back Column 2 does not dealer investigates back Column 2 does not dealer investigates back Column 2 does not dealer investigates back to the property of the control of the property of the propert



[Part 1/1] Table 42.2 Exclusions

	Table A2.2	Exclus	ions										
Т			Sh	dent eucl	lusions (un	weighted)				Student exc	fusion (we	ghted)	
		of excluded students with a doubling	Number of excluded students with a disability (Code 2)	because of language	excluded students for other	Number of excluded students because of no materials available in the language of instruction (Code 5)	Total number of excluded students	Weighted number of excluded students with a disability (Code 1)	Weighted number of excluded students with a disability (Code 2)	Weighted number of excluded students because of language (Code 3)	number of	Number of excluded stu- dents because of no materials available in the language of instruction (Code 5)	Total weighted number of excluded students
		(1)	(2)	(a)	(4)	(5)	(6)	9	(8)	(9)	(10)	(11)	(12)
(DJQ	Australia	24	210	79	0	0	313	272	2834	1 283	0	0	4 389
8	Austria Belgium	3	26 17	19	0	0	45	26	317	290 95	0	0	607 292
	Cando	49	1.458	100	0	0	1 607	428	19 082	1326	0	0	20 837
	Chile	5	10	0	0	0	15	177	443	0	0	0	620
	Czech Republic	8	7	- 9	0	0	26	117	144	162	0	0	423
	Desmark Extens	13	182	35	66	0	296	165	1 432	196	656	0	2 448
	finland	- 4	28 48	12	11	2	77	38	447	110	99	23	717
	France	1	0	0	- 0	0	1	304	0	0	0	0	304
	Germany	6	20	2	0	0	28	864	2 443	285	0	0	3 591
	Greece	7	11	7	117	0	142	172	352	195	2 257	0	2 977
	Hungary Iceland	0	78	- 64	38	0	10_	0_	48 78	- 65	313	0_	361 189
	treland	4	72	25	35	0	136	51	783	262	396	0	1 492
	Israel	10	69	7	- 0	- 0	86	194	1.049	116	0	0	1359
	Italy	45	348	168	0	0	561	748	6 241	3 674	-0	0	10 663
	[apan Korea	7	9	0	0	0	16	294	753	0	0	ô	1 748
	Luxembourg	2	132	62	0	0	196	2	206	62	0	0	270
	Mexico	25	25	2	0	0	52	1 010	905	36	-0	0	1 951
	Netherlands	6	13	0	0	0	19	1.78	470	0	-0	0	648
	New Zealand Norway	19	160	78	0	3	184	191	1756	749	0	29	1 793
	Poland	2	13	0	0	0	15	169	1 061	0	0	0	1 230
	Portugal	2	100	13		0	115	25	1 322	197	0	0	1.544
	Slovak Republic	12	37	1	56	0	106	171	558	19	768	0	1 516
	Slovenia Spain	45	10	27	0	0	43 775	1 007	7141	4 525	0	0	138
	Sweden	115	0	31	0	0	146	2 628	0	732	0	0	3 3 6 0
	Switzerland	- 11	106	92	0	0	209	64	344	532	0	0	940
	Turkey	3	3	5	0	0	11	338	495	665	0	0	1.497
	United Kingdom United States	46 29	247 236	31 40	10	0	318 315	2 438 15 367	13 462 127 456	1 174 21 716	5 971	0	17:094 17:0542
9	Albania	0	10	0	0	0	14	288	937	0	0	0	1 225
Partmens	Argentina Azerbaijan	0	10	0	0	0	0 '	288	937	0	0	0	1 225
40	Bruil	21	3	0		0	24	2.495	197	0	0	0	2 602
	Bulgaria	0	0	0	0	0	0	0	0	0	0	0	0
	Colombia	7 4	30	2	0	0	11	200	48 219	242	0	0	490 273
	Dubai (UAE)	1	30	3		0	34	24	239	3	0	0	2/3
	Hong Kong-China	0	9	0	0	0	2	0	119	0	0	0	119
	Indonesia	0	0	0	0	0	0	0	0	0	0	0	0
	Jordan Kazakhstan	10	17	6	0	55	24 82	166	149 828	127	0	2 587	443 3 844
	Kyrgyzstan	68	13	5	0	- 0	86	1 093	211	80	-0	0	1384
	Latvia	- 6	8	- 5	0	0	19	25	44	33	0	0	102
	Liechtenstein	0	0	0	0	0	0	0	0	0	0	0	0
	Lithuania Macao-China	4 0	69	1 0	0	0	74	33	590	9	0	0	632
	Montenegro	0	0	0	- 0	. 0	0	0	0	0	0	0	0
	Panama	0	0	0	0	0	0	0	0	0	0	0	0
	Poru Ostar	9	18	0	0	0	26	245	313	0	0	0	558 28
	Qatar Romania	0	18		0	0	28	9	18	- 0	0	0	28
	Rossian Federation	11	47	1	0	0	59	2 081	13 010	157	0	0	15 247
	Serbia	4	5	0	. 0	1	10	66	.53	0	0	13	133
	Shanghai-China Singapore	1 2	6 22	24	0	0	7 68	19	217	162	0	0	130
	Singapore Chinese Taipei	13	19	0	0	0	32	684	977	182	0	0	1 662
	Thailand	0	5	1	0	0	6	0	260	196	0	0	458
	Trinidad and Tokogo	1	10	0	0	0	11	3	33	0	0	0	36
	Tunista	4 2	1 9	2 9	0	0	7 14	104	21	55 18	0	0	184
_	Uruguay	2	. 9	- 3	. 0	0	14	14	34	18	. 0	0	67

Exclusion codes:

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- Column 12 shows the overall exclusion rate, which represents the weighted percentage of the national desired target population excluded from PISA either through school-level exclusions or through the exclusion of students within schools. It is calculated as the school-level exclusion rate (Column 6 divided by 100) plus within-school exclusion rate (Column 11 divided by 100) multiplied by 1 minus the school-level exclusion rate (Column 6 divided by 100). This result is then multiplied by 100. Five countries, Denmark, Luxembourg, Canada, Norway and the United States, had exclusion rates higher than \$%. When language exclusions were accounted for (i.e. removed from the overall exclusion rate), the United States no longer had an exclusion rate greater than 5%.
- Column 13 presents an index of the extent to which the national desired target population is covered by the PISA sample. Denmark, Luxembourg, Canada, Norway and the United States were the only countries where the coverage is below 95%.
- Column 14 presents an index of the extent to which 15-year-olds enrolled in schools are covered by the PISA sample. The index measures the overall proportion of the national enrolled population that is covered by the non-excluded portion of the student sample. The index takes into account both school-level and student-level exclusions. Values close to 100 indicate that the PISA sample represents the entire education system as defined for PISA 2009. The index is the weighted number of participating students (Column 8) divided by the weighted number of participating and excluded students (Column 8 plus Column 10), times the nationally defined target population (Column 5) divided by the eligible population (Column 2) (times 100).
- Column 15 presents an index of the coverage of the 15-year-old population. This index is the weighted number of participating students (Column 8) divided by the total population of 15-year-old students (Column 1).

This high level of coverage contributes to the comparability of the assessment results. For example, even assuming that the excluded students would have systematically scored worse than those who participated, and that this relationship is moderately strong, an exclusion rate in the order of 5% would likely lead to an overestimation of national mean scores of less than S score points (on a scale with an international mean of 500 score points and a standard deviation of 100 score points). This assessment is based on the following calculations: if the correlation between the propensity of exclusions and student performance is 0.3, resulting mean scores would likely be overestimated by 1 score point if the exclusion rate is 1%, by 3 score points if the exclusion rate is 5%, and by 6 score points if the exclusion rate is 10%. If the correlation between the propensity of exclusions and student performance is 0.5, resulting mean scores would be overestimated by 1 score point if the exclusion rate is 1%, by S score points if the exclusion rate is 5%, and by 10 score points if the exclusion rate is 10%. For this calculation, a model was employed that assumes a bivariate normal distribution for performance and the processity to participate. For details, see the PISA 2009 Technical Report (OECD, forthcoming).

Sampling procedures and response rates

The accuracy of any survey results depends on the quality of the information on which national samples are based as well as on the sampling procedures. Quality standards, procedures, instruments and verification mechanisms were developed for PISA that ensured that national samples yielded comparable data and that the results could be compared with confidence.

Most PISA samples were designed as two-stage stratified samples (where countries applied different sampling designs, these are documented in the PISA 2009 Technical Report [OECD, forthcoming]). The first stage consisted of sampling individual schools in which 15-year-old students could be enrolled. Schools were sampled systematically with probabilities proportional to size, the measure of size being a function of the estimated number of elicible (15-year-old) students enrolled. A minimum of 150 schools were selected in each country (where this number existed), although the requirements for national analyses often required a somewhat larger sample. As the schools were sampled, replacement schools were simultaneously identified, in case a sampled school chose not to participate in PISA 2009.

In the case of Iceland, Liechtenstein, Luxembourg, Macao-China and Qatar, all schools and all eligible students within schools were included in the sample.

Experts from the PISA Consortium performed the sample selection process for most participating countries and monitored it closely in those countries that selected their own samples. The second stage of the selection process sampled students within sampled schools. Once schools were selected, a list of each sampled school's 15-year-old students was prepared. From this list, 35 students were then selected with equal probability (all 15-year-old students were selected if fewer than 35 were enrolled). The number of students to be sampled per school could deviate from 35, but could not be less than 20.

Data-quality standards in PISA required minimum participation rates for schools as well as for students. These standards were established to minimise the potential for response biases. In the case of countries meeting these standards, it was likely that any bias resulting from non-response would be negligible, i.e. typically smaller than the sampling error.

A minimum response rate of 85% was required for the schools initially selected. Where the initial response rate of schools was between 6S and 85%, however, an acceptable school response rate could still be achieved through the use of replacement schools. This procedure brought with it a risk of increased response bias. Participating countries were, therefore, encouraged to persuade as many of the schools in the original sample as possible to participate. Schools with a student participation rate between 25% and 50% were not regarded as participating schools, but data from these schools were included in the database and contributed to the various estimations. Data from schools with a student participation rate of less than 25% were excluded from the database.



[Part 1/2]

_	Table A2.3	Response r	ates						
			Initial samp	le – before school	replacement		Final sample	e – after school	replacement
		Weighted school participation rate before replacement (%)	Weighted number of responding schools (weighted also by enrolment)	Weighted number of schools sampled (responding and non-emponding) (weighted also by enrolment)	Number of responding schools (unweighted)	Number of responding and non-responding schools (unactighted)	Weighted school participation rate after replacement (%)	Weighted number of respending schools (weighted also by enrolment)	Weighted number of schools sampled (responding and non-exponding (weighted also by enrolment)
		(1)	(2)	(0)	(4)	(3)	(0)	(7)	(8)
900	Australia	97.78	265 659	271 496	342	357	98.85	268 780	271 918
ŏ	Austria	93.94	88 551	94 261	280	291	93 94	88 551	94 261
	Belgium Canada	85.76	112 594 342 152	126 851 411 343	215	1 001	95.58	121 291 366 705	126 899 411 343
	Chile	94,34	245 583	250331	109	201	59.04	257 594	280 099
	Czech Republic	83.09	24 626	113 961	226	270	97.40	111 091	114 062
	Dermark	83.94	55 375	65 967	264	325	90.75	59 860	65 964
	Estonia	100.00	13 230	13 230	173	175	100 00	13 230	13 230
	finland	98.65	62 892	63 751	201	204	100 00	63 745	63 751
	France	94.14	658 769	699 776	166	177	9414	658 769	699 776
	Germany	98.61	826 579	838 259	223	226	100 00	838 259	816 259
	Greece	98.19	98 710	100 529	181	184	59.40	99 925	100 529
	Hungary	98.21	101 523	103 378	184	190	99 47	103 067	103 618
	Iceland	9846	4 488	4 558	129	141	98 46	4 488	4 558
	Ireland	87.18	48 821	35 997	139	160	85.44	49 526	55 997
	tsrael Italy	92.03	103 141 532 432	112 069 564 811	170	1 108	93.40 99.08	106 918	112 069 564 768
		87.77	932 432	1118.694	1054	1108	99 08	1 081 662	1 138 694
	Japan Korna	100.00	999 408	683 793	157	157	100.00	683 793	683 793
	Luxembourg	100.00	5.637	5 437	39	39	100-00	5.637	5.437
	Mexico	95.62	1 338 291	1399 638	1 512	1 560	97,71	1 367 666	1 399 730
	Netherlands	80.40	154 471	192 140	155	194	91.54	183 555	192 118
	New Zealand	84.11	49 917	59.344	148	179	91 00	54 130	59 485
	Norway	89.61	55 484	61 920	183	207	96.53	59 759	61 909
	Poland	88.16	409 513	464 535	199	187	97,70	453 855	464 535
	Portugal	93.61	102 225	109 205	201	216	98.43	107 535	109 251
	Slovek Republic	93.33	67 281	72 092	180	191	99 01	71 388	72 105
	Slovenia	98.36	19 798	20127	337	352	98 36	19 798	20 127
	Spain	99.53	422 692	424 705	555	892	99.53	422 692	424 705
	Sweden	99.91	120 693	120 802	189	191	29 21	120 693	120 802
	Switzerland	94.25	81 005	85 952	413	429	98,71	81 595	86 005
	Turkey United Kinadom	71.06	849 830 523 221	849 830 736 341	170	170	100.00	849 830 643 027	849 830
	United Kingdom United States	67.83	2 623 852	3941 998	1415	208	87.35 77.50	3 065 651	3 955 606
		67.63	2 0/3 032	3 541 700	140	200	77,30	3 063 651	3 935 969
c	Albania Argentina Azerbaijan	97.29	39 168	40 259	177	182	99,37	39 999	40 253
ã	Argentina	97.18	590 215	607 344	194	199	99.42	603 817	607 344
å.		99,86	168 646	168 890	161	162	100:00	168 890	168 890
	Brazil	93 13	2 435 250	2 614 824	899	976	94.73	2 477 518	2 614 805
	Bulgaria	98.16	56 922	57 991	173	178	99.10	57 823	58 345
	Colombia	90.21	507 649	562 728	260	285	94.90	533 899	582 587
	Croatia	99.19	44 561	44 926 10 144	157	159	99.86 100.00	44 862 10 144	44 926
	Dubai (UAE) Hong Kong-China	69,19	53 800	77 758	108	156	96,75	75 232	10 144 77 758
	Indonesia	94.54	2 337 438	2 472 502	172	183	100:00	2 473 528	2 473 528
	torden	100,00	105 906	105 906	210	210	100,00	105 906	105 905
	Kazakhstan	100.00	257 427	257 427	199	199	100.00	257 427	257 427
	Kyrgyzstan	98.53	86 412	89 733	171	174	99.47	B3 260	89 733
	Latvia	97-46	26 986	27 689	180	185	99.39	27 544	27.713
	Liechtenstein	100.00	356	356	12	12	100:00	356	356
	Lithuania	98 13	41.759	42.555	192	197	99 91	42 526	42.564
	Macao-China	100.00	5 946	5 966	45	45	100.00	5 966	5 966
	Montenegro	100.00	8 527	8 527	52	52	100.00	8 527	8 527
	Panama	82.58	33 384	40 426	180	220	83.76	33 779	40 329
	Peru	100.00	480 640	480 640	240	240	100.00	480 640	460 540
	Qutur	97.30	10 223	10 507	149	154	97.30	10 223	10 507
	Romania Russian Federation	100.00	150 114	150 114	159 213	159 213	100.00	150 114	1392 765
	Russian Federation Serbia	100.00	70.960	1 392 765	213	213	100 00	1 392 765	71 576
	Sechia Shanghai-China	99.21	70 960	71 524 99 514	151	191	100.00	71 504 59 514	71 524 99 514
	Singapore	96.19	51 552	53 592	168	175	97.68	52 454	53 592
	Chinese Taipei	92,14	322 005	324 141	157	158	100.00	324 141	324 141
	Thailand	98.01	737 225	752 193	225	230	100.00	752 392	752 392
	Trinidad and Tobago	97.21	17 180	17 673	155	160	97.21	17 180	17 673
	Tunisa	100:00	153 196	153 198	165	165	100.00	153 198	153 198
	Uruguay	28,66	42 820	43 400	229	233	25.50	42 820	43 400

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		Final sa after school	mgle – replacement	final sample – students within schools after school replacement								
		Number of responding schools (unweighted)	Number of responding and non-exponding schools (unweighted)	Weighted student participation rate after replacement (%)	Number of students assessed (weighted)	Number of students sampled (assessed and absent) (weighted)	Number of students assessed (unweighted)	Number of students samples (rasessed and absent) (unweighted)				
		(0)	(10)	(11)	(12)	(13)	(14)	(15)				
9	Australia	345	357	86.05	205 234	238 498	14 050	16 903				
0000	Austria	280	291	88.63	72 793	82 135	0.568	7 587				
۳	Belgium	275	292	91,38	101.263	114 017	8 477	9 245				
	Canada	908	1 001	79,52	257 905	324342	22 383	27 603				
	Chile	199	201	92.88	227 541	244 995	5 663	6 097				
	Czech Republic	260	270	90.75	100 685	110 953	6 019	6 656				
	Denmark Extense	285	325	89.29 94.06	49 236 12 208	55 139 12 978	5 924	5 023				
	tipland	175	175	94.06	12 208	12 978	4 727 5 810	5 023				
	France	203 166	177	92.27 87.12	56 709 556 054	638 284	4 272	4 900				
	Germany	226	226	93.93	720 447	638 284 766 993	4 272	5 309				
	Greece	183	184	95.95	88 875	92 631	4 957	5 165				
	Hungary	187	190	99.25	97 923	105 015	4 605	4 956				
	Iceland	129	141	83.91	3 035	4 332	3 635	4 332				
	Ireland	141	100	83.81	39 248	40 830	3 5775	4 034				
	Israel	176	186	89.45	59.480	98 918	5 761	6 440				
	Italy	1.095	1 108	92 13	462 655	502 190	30.876	33 390				
	Japan	185	196	95.32	1 010 801	1 050 302	6.077	6.377				
	Korea	157	157	96.76	622 157	630 030	4 989	5 057				
	Lusembourg	39	.19	95.57	4 897	5 124	4 677	6 813				
	Mexico	1.531	1 560	95 13	1 214 827	1 276 982	38 213	40 125				
	Netherlands	185	194	89.78	157 912	175 897	4.747	5 286				
	New Zealand	161	179	84.65	42 452	50 149	4 606	5 476				
	Norway	197	207	89.92	49 785	55 366	4 660	5 194				
	Poland	179	187	85.87	376 767	438 739	4 855	5 674				
	Portugal	212	216	87.11	83 094	95 386	6.203	7 169				
	Slovak Republic	189	191	93.03	63 854	68 634	4 535	4 856				
	Slovenia	337	352	90.52	16 777	18 453	6 135	6.735				
	Spain	888	892	89.60	345 122	385 164	25 871	28 280				
	Sweden	189	191	92.97	105 026	112 972	4 567	4912				
	Switzerland	425	429	93.58	74 712	79 836	11 510	12 551				
	Turkey	1.70	170	9785	741 029	757 298	4 996	5 108				
	United Kingdom	481_	549	_ 50.76	520,121	_ 595 110	12 168	14 046				
	United States	160	208	86.59	2 298 889	2 642 598	5 165	5 951				
9	Albania	181	182	9539	32 347	33 911	4 596	4 831				
	Argentina	198	199	88.25	414 166	469 285	4 762	5 423				
ŧ	Azerbaijan	162	162	99,14	105 095	106 007	4 691	4 727				
	Brazil	926	976	89.04	1 767 872	1985 479	19 901	22 715				
	Gulgaria	176	178	97.34	56 096	57 630	4 499	4 617				
	Colombia	274	285	92.83	462 602	498 331	7910	8 483				
	Croatia	158	159	93.76	40 321	43 006	4994	5 326				
	Dubai (UNE)	190	190	90.39	8.297	9 179	5 620	6 218				
	Hong Kong-China	151	156	93,19	68 142	73 125	4837	5 195				
	Indonesia	183	163	26.91	2 189 287	2 259 118 104 (%)	5 136	5 313				
	(ordan Kazakhetan	210	210	95.83 75.42	99.734 240.872	250 637		6.777				
							5 412					
	Kyrgyzstan Latvia	123 184	185	98.04	76 523 21 241	28 054 23 273	4 986 4 502	5 086 4 930				
	Liechtenstein	184	185	91.27	21 241	355	329	4 930				
	Lithuania	196	197	92.80	37 808	40.495	4 528	4 854				
	Macao-China	45	45	99.57	3 952	5 978	5 952	5 978				
	Montenegro	52	12	95.43	7 175	7 728	4.825	5.062				
	Panama	183	220	88 67	22 666	25 562	3 913	4 449				
	Person	240	240	96.35	412.011	627 607	5.985	6.216				
	Outar	149	154	93.63	8 990	9 602	8 990	9.602				
	Romania	159	159	99.47	150 331	151 130	4.776	4 803				
	Russian Federation	213	213	96.77	1 248 353	1 290 047	5 306	5 502				
	Serbia	190	191	95.37	67.496	70 775	5 522	5 804				
	Shanghai-China	152	152	20.82	25 700	97 045	5 115	5 175				
	Singapore	171	175	98.04	46 224	50.775	5 283	5 809				
	Chinese Taipei	158	158	95 30	283 239	297 203	5 831	6 108				
	Thailand	230	230	97.37	973 985	691 916	6.225	0.396				
	Trinidad and Tobago	155	160	85.92	12 275	14 287	4.731	5 518				
	Tunisia	165	165	26.93	132.354	136 545	4 933	5 113				
	Uruguay	229	233	87.03	29 193	33 541	5 92 4	6.815				



PISA 2009 also required a minimum participation rate of 80% of stadents within participating schools. This minimum participation rate had to be met at the national level, not necessarily by each participating school. Follow-up seasons were required in schools in which too level suitables had participated for the original assessment senses. Studies participation in not were calculated over all original schools, and also over all calculated over all original assessment schools, and form the participation of schools of the participation deviation of the participation deviated over a school of the participation deviated over the participation of the participation deviated over the statistics presented in this publication of they provided at least a description of their father's or momentum contents.

Table A2.3 shows the response rates for students and schools, before and after replacement.

- Column 1 shows the weighted participation rate of schools before replacement. This is obtained by dividing Column 2 by Column 3.
- Column 2 shows the weighted number of responding schools before school replacement (weighted by student enrolment).
- Column 3 shows the weighted number of sampled schools before school replacement (including both responding and non-responding schools, weighted by student enrolment).
- . Column 4 shows the unweighted number of responding schools before school replacement
- Column 5 shows the unweighted number of responding and non-responding schools before school replacement
- Column 6 shows the weighted participation rate of schools after replacement. This is obtained by dividing Column 7 by Column 8.
- Column 7 shows the weighted number of responding schools after school replacement (weighted by student enrolment).
- Column 8 shows the weighted number of schools sampled after school replacement (including both responding and non-responding schools, weighted by student enrolment).
- Column 9 shows the unweighted number of responding schools after school replacement.
- Column 10 shows the unweighted number of responding and non-responding schools after school replacement
- Column 11 shows the weighted student participation rate after replacement. This is obtained by dividing Column 12 by Column 13.
- . Column 12 shows the weighted number of students assessed.
- Column 13 shows the weighted number of students sampled (including both students who were assessed and students who were absent on the day of the assessment).
- Column 14 shows the unweighted number of students assessed. Note that any students in schools with student-response rates less than 50% were not included in these rates (both weighted and unweighted).
- Column 15 shows the unweighted number of students sampled fincluding both students that were assessed and students who
 were absent on the day of the assessment). Note that any students in schools where fewer than half of the eligible students were
 assessed were not included in these rates (neither weighted nor unweighted).

Definition of schools

In some countries, sub-units within schools were sampled matered of schools and this may affect the collisation of the between school variance components. In Austria, the CECH Regulatio, Commany Hongany, Hanga, Remantal and Stockmits, schools with more than one study programme, were split into the units delivering these programmes. In the Netherlands, for schools with both lower and upper occurably programmes, wholes were palled unsuited indeburing each programme level. In the Elementh Community of Belgliam, in the case of multi-campas schools, implantations Europeard were sampled, whereas in the French Community of Belgliam, in the case of multi-campas were proposed to the sample of the sampl

Grade levels

Students assessed in PISA 2009 are at various grade levels. The percentage of students at each grade level is presented by country in Table A2.4s and by gender within each country in Table A2.4b.



			_		_	Grad	e level					
	7th	grade	10h	grade	98.	grade	10th	grade	116	grade	12th	grade
	%	S.E.	%	5.E	%	S.E.	%	S.E.	%	S.E.	%	S.E.
Audralia.	0.0	(0.6)	0.1	(0.0)	10.4	(0.6)	70,5	(0.6)	18.6	(0.6)	0.1	(0.0)
Austria	0.7	(6.2)	6.2	(1.0)	42.4	(0.9)	50.7	(1.4)	0.0	(0.0)	0.0	
Belgium	0.4	(0.2)	5.5	(0.5)	32.0	(0.6)	60.8	(0.7)	1.2	(0.1)	0.0	(0.0)
Canada	0.0	(0.0)	1.2	(0.2)	13.6	(0.5)	84.1	(0.5)	1.1	(0.1)	0.0	(0 €
Chile	1.0	(0.2)	3.9	(2.5)	20.5	(0.8)	69.4	(1.0)	5.2	(D 3)	0.0	(0.0
Czech Republic	0.5	(0.2)	3.8	(0.3)	46.9	(1-41)	46.7	(1.1)	0.0	c	0.0	
Denmark	0.1	(0.0)	14.7	(0.4)	89.5	(0.8)	1.7	(0.5)	0.0	ε _	0.0	
Estonia	1.6	(0.3)	24.0	(0.7)	72.4	(0.5)	1.8	(0.3)	0.1	(0.1)	0.0	
Finked	0.5	(01)	11.8	(0.5)	87.3	(0.5)	0.0	c	0.6	(0.1)	6.0	
France	1.3	(0.5)	3.6	(0.7)	34.4	(1.2)	56.6	(1.5)	4.0	(0.7)	0.1	(0.6
Germany	1.2	(0.2)	11.0	(0.5)	54.8	(CLB)	32.5	(0.8)	0.4	(0.1)	0.0	(0.0
Greece	0.4	(0.2)	1.4	(0.5)	67.1	(0.4)	92.7	(1.0)	6.0	c	0.0	
Hungary	2.8	(0.6)	7.6	(1.7)		(1.4)	22A	(0.9)	0.1	(0.1)	0.0	9.0)
tceland	0.0	c	0.0	c	0.0	(0.6)	98.3	(0.1)	1.7	(0.1)	0.0	
Ircland	0.1	(0,0)	2,4	(0.1)	59.1	(1.0)	24.0	(1.4)	14,4	(1.1)	0,0	
Israel	0.0	c	0.3	(0.1)	17.9	(1.0)	81.3	(1.0)	0.5	(0.2)	0.0	00.6
Italy	0.1	(0.1)	1.4	(0L3)	16.9	(0.4)	75.4	(0.6)	3.2	(0.3)	0.0	
Japan	0.0	c	6.0	C	0.0	c	100.0	(0.0)	0.0	c	0.0	
Korea	0.0	e	0,0	(9-0)	4.2	(0.5)	95.1	(0.9)	07	(0.1)	0.0	
Luxembourg	0.6	(0.1)	11.6	(0.2)	51.6	(0.3)	36.0	(D 2)	0.3	(0.0)	0.0	
Mexico	1.7	(0,1)	7.4	(0.3)	34.5	(0.8)	55.6	(0.9)	0.7	(0,2)	0.0	40.0
Netherlands	0.2	(0.2)	2.7	(0.3)	46.2	(1.1)	50.5	(1.1)	0.5	(0.1)	0.0	
New Zealand	0.0	c	0.0	c	0.0	(0.0)	5.9	(0.4)	8.88	(0.5)	5.3	40.3
Norway	6.0	c	0.0	c	0.5	(0.1)	99.3	(0.2)	0.2	(0.1)	0.0	
Poland	1.0	(0.2)	4.5	(0.4)	93.6	(0.6)	0.9	(0.3)	0.0	0	0.0	
Portugal	2.1	(0.1)	9.0	(0.8)	27.9	(1.6)	60.4	(2.2)	0.4	(0.1)	0.0	
Slovak Republic	1.0	(0.2)	2.6	(0.3)	35.7	(1.4)	56.9	(1.6)	3.6	(0.8)	0.0	(CLE
Slavenia	0.0	c	0.1	(0.1)	3-0	(0.7)	90.7	(0.7)	6.2	(0.2)	0.0	
Spain	0.1	(0.0)	99	(0.4)	26.5	(0.6)	63.4	(0.7)	0.0	(0.0)	0.0	
Sweden	0.1	(0.1)	3.2	(0.3)	95.1	(0.6)	1.6	(0.5)	0.0	0	0.0	
Switzerland	0.6	(0.1)	15.5	(0.9)	61.7	(1.3)	21.0	(1.1)	1.2	(0.5)	0.0	0.0)
Turkey	0.7	(0.1)	3.5	(0.6)	25.2	(1.3)	55.6	(1.5)	3.6	ED 30	0.2	(0.1
United Kingdom	0.0	c	0.0	c	0.0	c	1.2	(0.1)	96.0	(0.1)	0.8	(0.0)
United States	0.0	c	61	(0.1)	109	(0.8)	68.5	(3.6)	20.3	(0.7)	0.1	(0.1
OECD average	pur	(0,1)	5.8	80-87	57.0	(0.2)	52.9	(0.2)	5.9	(0.1)	0.5	90.0
Albania	0.4	(0.1)	2.2	(0.3)	10.9	(2.0)	46.4	(2.0)	0.1	(0.0)	0.0	
Argentina	4.7	(0.79	12.9	(1.3)	20.4	(1.2)	57.8	(2.1)	4.3	(0.5)	0.0	
Azerbaijan	0.6	(0.2)	5.3	(7.5)	49.4	(1.3)	413	(1.3)	0.4	(0.1)	0.0	
Brazil	6.8	(0.4)	18.0	(9.7)	37.5	60.60	35.7	(0.40	2.1	(0.1)	0.0	
Bulgaria	1.5	(0.31	61	(0.6)	88.7	(0.9)	3.6	10.60	0.0	c	0.0	
Colombia	4.4	(0.5)	103	(0.7)	22.1	60.60	42.3	(1.0)	21.0	(1.0)	0.0	
Croatia	0.0	c	0.2	(0.2)	77.5	(0.4)	22.3	10.49	0.0	c	0.0	
Duhai (UAE)	1.1	(9.1)	3.4	(0.1)	14.6	40.40	56.9	0.0	22.9	(0.4)	0.9	60.1
Hong Kong-China	1.7	(0-2)	7.2	(0.5)	25.2	49.53	65.9	10.99	0.1	(0.0)	0.0	
			6.5	(0.0)	46.0	(3-1)	40.5	(3-2)	5.0	(0.8)	0.5	(0.4
Indonesia	1.5	(0.5)						(0.0)	0.0	c	0.0	
	1.5	(0.5)	1.3	00.29	70	40.50	91.6				0.0	
Indonesia Jordan		(0.1)	1.3	(0.2)	70	(0.5)			0.1			
Indonesia Jordan Kazakhstan	0.1					(0.5) (1.5)	91.6 19.7	(2.0)	6.7	(0.0)	0.0	
Indonesia Jordan	0.1	(0.1)	1.3	(0.2)	70 73.3	(0.5)	19.7					
Indonesia Jordan Kazakhotan Kyngyzitan Latvia	0.1 0.4 0.2	(01) (01) (01)	1.3 6.4 7.9	(0.2) (0.4) (0.5)	70 73.3 71.4	(0.5) (1.5) (1.3)	19.7	(2.0)	0.7	(0.1)	0.0	00.0
Indonesia Jordan Kazakhatan Kyngyzstan	0.1 0.4 0.2 2.7	(0.1) (0.1) (0.1) (0.5)	1.3 6.4 7.9 15.5 17.5	(0.29 (0.4) (0.5) (0.7) (1.1)	70 73.3 71.4 79.4 71.3	(0.5) (1-9) (1-3) (0.9) (0.6)	19.7 19.8 2.4 10.4	(2.0) (1.4) (0.3) (1.0)	6.7 6.1 6.6	(0.1) (0.1) c	0.0	00-0
Indonesia Jordan Kazakhotan Kyrgyzstan Lahia Liechtemtein Liftmania	0.1 0.4 0.2 2.7 0.8 0.5	(0.1) (0.1) (0.5) (0.5) (0.1)	1.3 8.4 7.9 15.5 17.5 10.2	(0.29 (0.4) (0.5) (0.7) (0.1) (0.9)	70 71.1 71.4 79.4 71.3 80.9	(0.5) (1.5) (1.3) (0.5) (0.6)	19.7 19.8 2.4	(2.0) (1.4) (0.3) (1.0) (0.6)	6.7 6.1	(0.1) (0.1) c (0.0)	0.0	00-0
Indonesia Jordan Kazakhutan Kyrgyzatan Lahia Lichtenstein Lithuania Macao-China	0.1 0.4 0.2 2.7 0.8	(0.1) (0.1) (0.1) (0.5)	1.3 6.4 7.9 15.5 17.5 10.2 19.2	(0.29 (0.4) (0.5) (0.7) (0.7) (0.1) (0.2)	70 71.1 71.4 79.4 71.3 80.9 34.9	(0.5) (1.2) (1.3) (0.9) (0.8) (0.8) (0.8)	19.7 19.8 2.4 10.4 8.4 38.7	(2.0) (1.4) (0.3) (1.0) (0.6) (0.1)	0.7 0.1 0.0 0.0 0.5	(0.1) (0.1) c	0.0 0.0 0.0	00-6
Indonesia Jordan Kazakhotan Kargantan Lahia Liechtenstein Lithuasia Macoo-China Montens gro	0.1 0.4 0.2 2.7 0.8 0.5 6.7 0.0	(01) (01) (01) (05) (05) (01) (01) (01)	1.3 6.4 7.9 15.5 17.5 10.2 19.2 2.5	(0.29 (0.4) (0.5) (0.7) (0.7) (0.9) (0.2) (1.7)	70 711 714 794 713 809 349 82.7	(0.5) (1.9) (1.3) (0.9) (0.6) (0.6) (0.1) (1.5)	19.7 19.8 2.4 10.4 8.4 38.7 14.8	(2.0) (1.4) (0.3) (0.6) (0.1) (0.1)	6.7 0.1 0.0 0.0 0.5 0.0	(0.1) (0.1) c (0.0) (0.1) c	0.0 0.0 0.0 0.0	00.6
Indonesia jordan Kyrgyzstan Latvia Lechtenstein Liftinasia Macas-China Monten gro Fanama	01 0.4 0.2 2.7 0.8 0.5 6.7 0.0 2.9	(0.1) (0.1) (0.1) (0.5) (0.5) (0.1) (0.1) (0.8)	1.3 6.4 7.9 15.5 17.5 10.2 19.2 2.5 10.6	(0.2) (0.4) (0.5) (0.7) (1.1) (0.9) (0.2) (1.7) (1.6)	70 713 714 794 713 80.9 34.9 82.7 30.6	(0.5) (1.9) (1.3) (0.9) (0.6) (0.6) (0.1) (1.5) (3.3)	19.7 19.8 2.4 10.4 8.4 38.7	(2.0) (1.4) (0.3) (1.0) (0.6) (0.1) (0.3) (4.5)	6.7 0.1 0.0 0.0 0.5 0.0 6.1	(0.1) (0.1) c (0.0) (0.1) c (1.4)	0.0 0.0 0.0 0.0 0.0 0.0	(0.4
Indonesia jordan Kyrgyzstan Lahia Liechtenstein Lifeanna Macao-China Monten gro Panama Peru	01 0.4 0.2 2.7 0.8 0.5 6.7 0.0 2.9 4.0	(0.1) (0.1) (0.1) (0.5) (0.5) (0.1) (0.1) (0.4)	1.3 6.4 7.9 15.5 17.5 10.2 19.2 2.5 10.6 8.9	(0.29 (0.4) (0.5) (0.7) (1.1) (0.9) (0.2) (1.7) (1.6) (0.6)	70 71.1 71.4 79.4 71.3 80.9 34.9 82.7 30.6 17.1	(0.5) (1.9) (1.3) (0.9) (0.6) (0.6) (0.1) (1.5)	19.7 19.8 2.4 10.4 8.4 38.7 14.5 49.6	(2.0) (1.4) (0.3) (1.0) (0.6) (0.1) (0.3) (4.5) (1.1)	6.7 0.1 0.0 0.0 0.5 0.0	(0.1) (0.1) c (0.0) (0.0) c (1.4) (0.6)	0.0 0.0 0.0 0.0 0.0 0.0	80.6
Indonesia Jordan Kyzakhstan Kyngyzstan Lafvia Liechtenstein Liftuania Mazon-China Monten gro Panama	01 0.4 0.2 2.7 0.8 0.5 6.7 0.0 2.9	(0.1) (0.1) (0.1) (0.5) (0.5) (0.1) (0.1) (0.8)	1.3 6.4 7.9 15.5 17.5 10.2 19.2 2.5 10.6	(0.29 (0.4) (0.5) (0.7) (1.1) (0.9) (0.2) (1.7) (1.6) (0.6) (0.1)	70 713 714 794 713 80.9 34.9 82.7 30.6	(0.5) (1.9) (1.3) (0.9) (0.6) (0.6) (0.6) (0.1) (1.5) (3.3) (0.7) (0.2)	19.7 19.8 2.4 10.4 8.4 38.7 14.8 49.8 44.6	(2.0) (1.4) (0.3) (1.0) (0.6) (0.1) (0.3) (4.5) (1.1) (0.2)	6.7 0.1 0.0 0.0 0.5 0.0 6.1 25.4	(0.1) (0.1) c (0.0) (0.1) c (1.4)	0.0 0.0 0.0 0.0 0.0 0.0	(0.1
Indonesia Jordan Kazakhutan Kyrgyzatan Luhisa Liechtenstein Liffusnisa Macsia-China Macsia-China Macsia-China Panama Peru Quitar Romanis	01 0.4 0.2 2.7 0.8 0.5 6.7 0.0 2.9 4.0 1.7	(0.1) (0.1) (0.5) (0.5) (0.1) (0.1) (0.1) (0.1) (0.1)	1.3 6.4 7.9 15.5 17.5 10.2 19.2 2.5 10.6 8.9 3.6 7.2	(0.29 (0.4) (0.5) (0.7) (1.1) (0.9) (0.2) (1.7) (3.6) (0.6) (0.1) (1.0)	70 73.1 71.4 79.4 71.3 80.9 34.9 62.7 30.6 17.1 13.5 83.6	(0.5) (1-9) (1-3) (0.9) (0.6) (0.6) (0.1) (1-5) (3-3) (0.7) (0.2) (1-1)	19.7 19.8 2.4 10.4 8.4 38.7 14.5 49.8 44.6 62.6	(2.0) (1.4) (0.3) (0.6) (0.1) (0.3) (4.5) (1.1) (0.2) (0.6)	6.7 0.1 0.0 0.0 0.5 0.0 6.1 25.4 18.2	(0.1) (0.1) c (0.0) (0.1) c (1.4) (0.4) (0.2) c	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	(0.4
Indonesia Jordan	01 0.4 0.2 2.7 0.8 0.5 6.7 0.0 2.9 4.0 1.7 0.0	(0.1) (0.1) (0.1) (0.5) (0.5) (0.5) (0.1) (0.1) (0.8) (0.4) (0.1) (0.2)	13 6.4 7.9 15.5 10.2 19.2 2.5 10.6 8.9 3.6 7.2	(0.2) (0.4) (0.5) (0.7) (1.1) (0.9) (0.2) (1.7) (1.6) (0.6) (0.1) (1.0) (0.7)	7 0 73 3 71-4 79-4 79.3 80.9 34.9 82.7 30.6 17.1 13.5 85.6 80.1	(0.5) (1.9) (1.3) (0.9) (0.6) (0.6) (0.1) (1.7) (0.3) (0.7) (0.2) (1.1) (1.2)	19.7 19.8 2.4 10.6 8.4 38.7 14.5 49.8 44.6 62.6 4.3 28.1	(2.0) (1.4) (0.3) (0.6) (0.1) (0.3) (4.5) (1.1) (0.2) (0.6) (1.6)	6.7 0.0 0.0 0.5 0.0 6.1 25.4 18.2 0.0	(0.1) (0.1) c (0.0) (0.1) c (1.4) (0.6) (0.2) c (0.2)	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	(0.4
Indonesia Jorden Kazakhitan Kirgaratan Lahvia Licchtenstein Lichtenstein Lichtenstein Lichtenstein Panama Peru Qutar Ramania Rassian Federation Serbia	01 0.4 0.2 2.7 0.8 0.5 6.7 0.0 2.9 4.0 1.7 0.0 0.9	(0.1) (0.1) (0.1) (0.5) (0.5) (0.1) (0.1) (0.1) (0.1) (0.1) (0.2) (0.2)	1.3 8.4 7.9 15.5 10.2 19.2 2.5 10.6 8.9 3.6 7.2 10.0 2.1	(0.2) (0.4) (0.5) (0.7) (1.1) (0.5) (0.2) (1.7) (1.6) (0.6) (0.1) (1.0) (0.7) (0.5)	70 71.1 71.4 79.4 78.3 80.9 34.9 82.7 30.6 17.1 13.5 85.6 80.1 96.0	(0.5) (1.9) (1.3) (0.9) (0.8) (0.8) (0.1) (1.5) (0.3) (0.7) (0.2) (1.1) (1.6) (0.6)	19.7 19.8 2.4 10.6 8.4 38.7 14.5 49.6 44.6 62.6 4.3 26.1 1.7	(2.0) (1.4) (0.3) (1.0) (0.6) (0.1) (0.5) (1.1) (0.5) (1.1) (0.2) (0.6) (1.6) (0.2)	6.7 0.0 0.0 0.5 0.0 6.1 25.4 18.2 0.0 0.9	(0.1) (0.1) (0.0) (0.0) (0.1) (1.4) (0.6) (0.2) (0.2) (0.2)	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	(0.4
Indonesia Jordan Kazakhatan Kazakhatan Kargaratan Lahisa Liechtenstein Liifmansa Macoo-China Maoten go Panama Peru Qutar Kamunia Sansian Federation Serbia Serbia	01 0.4 0.2 2.7 0.8 0.5 6.7 0.0 2.9 4.0 1.7 0.0 0.9	(0 1) (0 1) (0 1) (0 5) (0 5) (0 1) (0 1) c (0 4) (0 1) c (0 2) (0 1) (0 2)	1.3 6.4 7.9 15.5 10.2 19.2 2.5 10.6 8.9 3.6 7.2 10.0 2.1 4.1	(0.2) (0.4) (0.5) (0.7) (0.7) (0.2) (1.7) (1.6) (0.6) (0.1) (1.0) (0.2) (0.5) (0.5) (0.0)	70 731 71.4 79.4 77.3 80.9 34.9 82.7 30.6 17.1 13.5 85.6 80.1 94.0 37.4	(0.5) (1.2) (1.3) (0.9) (0.8) (0.1) (1.5) (0.3) (0.7) (0.2) (1.1) (0.6) (0.8)	19.7 19.8 2.4 10.4 8.4 38.7 14.8 49.8 41.6 62.6 4.3 26.1 1.7	(2.0) (1.4) (0.3) (0.6) (0.1) (0.1) (0.3) (4.5) (0.1) (0.2) (0.4) (0.2) (0.2) (0.2)	6.7 0.1 0.0 0.0 0.5 0.0 6.1 25.4 18.2 0.0 0.9	(0.1) (0.1) c (0.0) (0.1) c (1.4) (0.8) (0.2) c (0.2) c	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	(0.4
Indonesia Jordan Kazakhatan Kyngyatan Lahvia Lichtentein Lichtunatia Mucos-China Mucos-China Mucos-China Mucos-China Samania Ramania Samania Samania Federation Scribia Shanghai-China Singapore	01 0.4 0.2 2.7 0.8 0.5 6.7 0.0 2.9 4.0 1.7 0.0 0.9 0.2	(0 1) (0 1) (0 1) (0 5) (0 5) (0 5) (0 1) c (0 4) (0 1) c (0 2) (0 1) (0 2) (0 2)	1.3 6.4 7.9 15:5 10:2 19:2 2:5 10:6 8:9 3:6 7:2 10:0 2:1 4:1 2:6	(0.2) (0.5) (0.5) (0.5) (0.5) (1.1) (0.9) (0.2) (1.7) (1.6) (0.2) (0.2) (0.2)	70 731 71.4 79.4 79.3 80.9 34.9 60.7 30.6 17.1 13.5 85.6 80.1 96.0 37.4 34.7	(0.5) (1.2) (1.3) (0.9) (0.8) (0.1) (1.5) (0.3) (0.7) (0.2) (1.1) (0.6) (0.8) (0.4)	19.7 19.8 2.4 10.4 8.4 38.7 14.8 49.8 44.6 62.6 4.3 25.1 1.7 57.3 61.6	(2.0) (1.4) (0.3) (0.6) (0.1) (0.1) (0.2) (0.4) (1.0) (0.2) (0.6) (1.0) (0.2) (0.2) (0.3)	07 01 00 05 00 61 254 182 00 04	(0.1) (0.1) c (0.0) (0.1) c (1.4) (0.6) (0.2) c (0.2) c (0.2) c	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	(0.4 (0.4 (0.4
Indonesia jondia Kazakhtan Kiprgerlain Labia Liecktenstein Liecktenstein Liebassa Maccas-China Mactora gu Parama Pera Qutar Samania Samania Serbia Shanghii-China Singapore Chisses Tajpi	01 0.4 0.2 2.7 0.8 0.5 6.7 0.0 2.9 4.0 1.7 0.0 0.9 0.2 1.0 0.0	(0 1) (0 1) (0 1) (0 5) (0 5) (0 5) (0 1) c (0 4) (0 1) c (0 2) (0 1) (0 2) (0 1) (0 2) (0 2) (0 2) (0 2) (0 2) (0 2) (0 2)	1.3 6.4 7.9 15:5 17.5 16:2 19:2 2:5 10:8 8:9 3:6 7:2 10:0 2:1 4:1 2:6 6:1	(0.2) (0.5) (0.5) (0.5) (0.5) (1.1) (0.9) (0.2) (1.7) (1.6) (0.1) (1.0) (0.2) (0.2) (0.2) (0.2) (0.2)	70 733 714 794 793 809 349 827 306 171 135 836 801 950 374 347	(0.5) (1.9) (1.3) (0.9) (0.8) (0.1) (1.5) (0.3) (0.7) (0.2) (1.1) (1.20) (0.4) (0.4) (0.9)	19.7 19.8 2.4 10.4 8.4 38.7 14.8 49.8 44.6 62.6 4.3 28.1 1.7 57.1 61.6 60.5	(2.0) (1.4) (0.3) (0.6) (0.1) (0.1) (0.2) (0.4) (0.6) (0.6) (0.2) (0.2) (0.2) (0.3) (0.3)	67 61 60 60 61 254 182 00 69 00	(0.1) (0.1) (0.1) (0.1) (0.1) (0.4) (0.4) (0.2) (0.2) (0.2) (0.2) (0.1)	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	(0.4 (0.1 (0.4
Indonesia Jordale Kazakhatan Syngratan Lahia Lahia Lekhtentein Lehuatia Macco-China Macco-China Macco-China Macco-China Ramaia Peru Qutar Ramaia Ramaia Ramaia Singapore Chicas trajagi	01 0.4 0.2 2.7 0.8 0.5 6.7 0.0 2.9 4.0 1.7 0.9 0.2 1.0 0.0 0.0	(0 1) (0 1) (0 1) (0 1) (0 5) (0.5) (0.5) (0.1) (0 1) (0 1) (0 2) (0.2) (0.2) (0.2) (0.2) (0.1) (0.2) (0.1)	1.3 6.4 7.9 15:5 10:2 19:2 2:5 10:6 8:9 3:6 7:2 10:0 2:1 4:1 2:6 0:1	(0.29 (0.4) (0.5) (0.7) (0.1) (0.9) (0.2) (1.6) (0.6) (0.1) (0.5) (0.6) (0.2) (0.6) (0.1)	70 711 714 794 713 809 349 827 306 171 135 856 801 960 374 347 23-2	(0.5) (1.9) (1.3) (0.9) (0.8) (0.1) (1.5) (0.3) (0.7) (0.6) (0.8) (0.6) (0.8) (0.6) (0.9) (0.7)	19.7 19.8 2.4 10.6 84 84 85.7 14.8 49.8 44.6 62.6 4.3 28.1 1.7 57.3 61.6 62.5 73.5	(2.0) (1.4) (0.3) (0.6) (0.1) (0.2) (0.4) (1.0) (0.2) (0.4) (1.0) (0.2) (0.9)	67 61 60 60 61 254 182 00 64 00 04	(0.1) (0.1) (0.1) (0.2) (0.1) (0.4) (0.4) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2)	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	(0.4 (0.5 (0.4
Indonesia jondia Kazakhtan Kiprgerlain Labia Liecktenstein Liecktenstein Liebassa Maccas-China Mactora gu Parama Pera Qutar Samania Samania Serbia Shanghii-China Singapore Chisses Tajpi	01 0.4 0.2 2.7 0.8 0.5 6.7 0.0 2.9 4.0 1.7 0.0 0.9 0.2 1.0 0.0	(0 1) (0 1) (0 1) (0 5) (0 5) (0 5) (0 1) c (0 4) (0 1) c (0 2) (0 1) (0 2) (0 1) (0 2) (0 2) (0 2) (0 2) (0 2) (0 2) (0 2)	1.3 6.4 7.9 15:5 17.5 16:2 19:2 2:5 10:8 8:9 3:6 7:2 10:0 2:1 4:1 2:6 6:1	(0.2) (0.5) (0.5) (0.5) (0.5) (1.1) (0.9) (0.2) (1.7) (1.6) (0.1) (1.0) (0.2) (0.2) (0.2) (0.2) (0.2)	70 733 714 794 793 809 349 827 306 171 135 836 801 950 374 347	(0.5) (1.9) (1.3) (0.9) (0.8) (0.1) (1.5) (0.3) (0.7) (0.2) (1.1) (1.20) (0.4) (0.4) (0.9)	19.7 19.8 2.4 10.4 8.4 38.7 14.8 49.8 44.6 62.6 4.3 28.1 1.7 57.1 61.6 60.5	(2.0) (1.4) (0.3) (0.6) (0.1) (0.1) (0.2) (0.4) (0.6) (0.6) (0.2) (0.2) (0.2) (0.3) (0.3)	67 61 60 60 61 254 182 00 69 00	(0.1) (0.1) (0.1) (0.1) (0.1) (0.4) (0.4) (0.2) (0.2) (0.2) (0.2) (0.1)	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	(0.1 (0.1 (0.0



[Part 1/2]

						Boys - g	pade level					
	71h	grade	10h	grade	98.	grade	10th	grade	1106	grade	12th	grade
	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
Australia.	0.0	c	0.1	(0.0)	13.1	(0.9)	69.6	(3.1)	17.1	(3.6)	0.1	00.0
Austria	0.7	(0.2)	7.4	(1.2)	42.6	(1.3)	49.3	(1.3)	0.0	(0.0)	0.0	
Belgium	0.6	(0.2)	6.4	(0.7)	31.6	(0.9)	57.3	(1.0)	1.1	(0.2)	0.0	(0.0)
Canada	0.0	(0.0)	1.4	(0.3)	14.6	(0.6)	82.9	(9.6)	5,1	(0.1)	0.0	(0) (0
Chile	1.3	(0.3)	49	(0.6)	23.2	(1.0)	65.9	(1.3)	4.7	(0.5)	0.0	
Czech Republic	0.7	(0.2)	4.5	(0.5)	52.5	(2.2)	42.3	(2.4)	- 0.0	E	0.0	
Denmark	0.1	(0.0)	19.5	(0.99	79.5	(0.5)	0.8	(0.3)	0.0	τ	0.0	
Estonia	2,4	(0.5)	27.0	(1,09	69.6	(8,1)	1.0	(9.3)	0.0	С	0.0	
finkad	0.6	(0.2)	14.0	(0.8)	85.2	(0.8)	0.0	c .	8.2	(0.1)	0.0	
France	1.3	(0.9)	4.0	(0.6)	39.6	(1.5)	51.4	(1.59	3.6	(0.8)	0.0	(0.0
Germany	14	(0.3)	13.1	(0.7)	561	(1.0)	28.8	(0.5)	0.6	(0.1)	0.0	
Greece	0.5	(0-2)	1.9	(0.5)	6.2	(1.2)	91.4	(1.5)	0.0	c	0.0	-
Hungary	3.2	(0.4)	9.3	(1.3)	68.5	(1.6)	18.7	(9.9)	0.0	(0.0)	0.0	(0.0
tceland	0.0	C	0.0	c	0.0	c	98.7	(9.2)	1.3	(0.2)	0.0	
treland	0.1	(0.0)	2.8	(0.5)	60.9	(1.3)	22.4	(1.5)	13.8	(1.4)	0,0	
Israel	0.0	c	0.5	(9.2)	19.9	(1.1)	78.7	(1.2)	1/0	(0.4)	0.0	
Italy	0.1	(0.1)	1.7	(0.4)	20.1	(0.6)	75.7	(0.7)	2.5	(0.3)	0.0	
Japan	0.0	c	0.0	С	0.0	c	100.0	(0.0)	0.0	c	0.0	-
Korea	0.0	c	0.1	(01)	4.7	(1.3)	945	(120	07	(0.2)	0.0	
Luxenbourg	8.0	(0.2)	12.5	(0.49	52.4	(0.5)	34,0	(D-4)	0.3	(0-1)	DD	
Mexico	2.0	(0.2)	8,5	(0.5)	37.6	(0.9)	51,0	(0.9)	0.5	(0),2)	0.0	
Netherlands	0.4	(0.3)	3.0	(0.4)	45.9	(1.3)	47.3	(1.3)	8.3	(0.1)	0.0	
New Zealand	0.0	•	0.0	- c	0.0	0	6.9	(0),5)	87.9	40.61	5-2	10.5
Norway	0.0		0.0		0.5	(0.1)	99.2	0).25	0.3	49.25	0.0	
Poland	1.5	(0.3)	6.5	(0.6)	916	(0.7)	0.5	(0.2)	0.0		0.0	
Portugal	3.4	(0.5)	10.5	(0.5)	30.2	(2.0)	54.0	(2.6)	0.4	49.11	0.0	
Slovak Republic	14	(0.3)	3.7	(0.5)	40.1	(1.9)	51.6	(2.1)	3.3	40.70	0.0	
Slavenia	0.0		0.1	(9.1)	40	(7.2)	911	(1.2)	4.7	(0.4)	0.0	
Spain	0.1	10.09	12.2	(0.6)	28.7	09.89	58.9	60,50	8.0	40.09	0.0	
Sweden	0.0	m.cs	6.1	(0.4)	94.7	(0.4)	1.1	(0.3)	0.0	- C	0.0	
Switzerland	0.8	(0.2)	18.0	(1.2)	60.7	(1.8)	19,4	(1.8)	1.0	(0.4)	0.1	(0.1
Turkey	1.0	(0.2)	40	(0.9)	30.2	(1.4)	61.3	(1.7)	3.2	(0.3)	0.7	(0.1
United Kingdom	0.0	67.27	0.0	(0.3)	0.0	(14)	13	(9.2)	98.0	(0.29	0.7	(0.1
United States	0.0		0.1	000	13.2	(1.0)	68.6	(1.0	17.9	(0.2)	0.1	00.1
OCCD average	15.00	(0.1)	(730	10.31	10.8	(9.29	30.6	(0.2)	28	(0.5)	9.7	90.0
OLLD MITH	7 100	Origin	1.4	Dr. 17	1000	(NA)	2000	firmi		Sec. 61	0.1	7700
Albania	0.5	(0.2)	26	(0.4)	34.0	(2.0)	42.9	(2.1)	0.0	(0.0)	0.0	
Argentina	5.9	(1.1)	15.4	(1.4)	22.7	(1.5)	52.5	(2.4)	3.5	(0.5)	0.0	
Azerbaijan	0.6	(0.2)	4.7	(0.5)	47.8	(1.4)	46.5	(1.5)	0.3	(01)	0.0	
Brazil	8.4	(0.6)	21.0	(0.5)	37.8	03.80	31.1	(3.5)	1.7	(0.2)	0.0	
Bulgaria	2.0	(0.4)	7.4	(0.5)	86.9	(1.2)	3.7	(9.6)	0.0	c	0.0	
Colombia	5.5	(0.9)	11.5	(0.9)	21.9	(1.1)	42.4	(1.4)	18.7	(1.2)	0.0	
Croatia	0.0	c	0.1	(0.1)	79.1	(0.6)	20.7	(0.6)	0.0		0.0	
Duhai (UAE)	1.6	(9-2)	4.5	(9.3)	16.0	(0.6)	53.6	(9.7)	23.1	(0.6)	1.1	60.2
Hong Keng China	1.9	(0.3)	7.3	(0.6)	26.6	(0.7)	64.1	(1.0)	0,1	(0.1)	0.0	
Indonesia	1.8	(0.7)	8.2	(1.0)	493	(3.4)	36.2	3.6	4.0	(0.9)	0.5	003
tordan	0.1	60.15	1.2	00,49	7.5	10.80	91.2	(0.50	0.0	(0.0)	0.0	10.5
Kazakhetan	0.5	(0.1)	7.1	40.40	75.7	(2.2)	17.2	(2.3)	0.1	mm	0.0	
Kyrgyzstan	0.2	(0.1)	8.9	(9.7)	72.9	(1.6)	17.4	(1.6)	0.5	(0.2)	0.0	
Latvia	3.6	02-95	19.9	(1.1)	74.7	(1.49	1.6	D40	01	(0.1)	0.0	0.0
Liechtenstein	1.1	03:77	19.7	(1,6)	68.9	(1.2)	10.3	(1.2)	0.0	(0-1)	0.0	97.0
Liferania	0.6	00.20	12.3	(1.2)	80.0	(1.2)	7.2	(0.7)	0.0	c	0.0	
Macao-China	5.9	(0.2)	22.0	(0.2)	34.9	E1.29	33.6	(0.2)	0.5	(0.1)	0.0	
Montene gro	0.0	(J. Z)	3.0	(2.0)	81.0	(1.8)	12.0	(0.4)	0.0	(U.1)	0.0	
Panama	3.4	(11)	13.6	(2.5)	32.6	(5.4)	45.7	(5.5)	47	(1-4)	0.0	
Pena	4.9	(0.5)	11.2	(2.5)	18-8	(1.0)	43.7	(1.4)	22.9	(0-9)	00	
Ostar	1.9	(0.5)	4.3	10 29	14.8	(0.3)	60.4	(0.3)	18.2	(0.5)	04	10.7
	0.0								0.0		0.0	(0.1
Romania		C	6.3	(1-1)	83.9	(1-3)	3.9	(0.7)				
Russian Federation	14	(0.3)	10.4	(0.9)	612	(1.5)	26.3	(1.9)	8.8	(0.2)	0.0	
Serbia	0.3	10-13	2.7	(0.7)	95.6	(0.8)	14	(0-2)	9.0	c	0.0	
Shunghai-China	1.2	(0.3)	5.1	(0.6)	38,8	(1.2)	54,7	(1.4)	0.2	(0.1)	0.0	
Singapore	8-0	(0-2)	2.9	(0.3)	35.7	(0.6)	60-6	(0.5)	0.0	c	0.0	
Chinese Taipei	0.0	c	0.2	(0.1)	35.2	(1.5)	64.7	(1.5)	0.0	c	0.0	
Thailand	0.2	(3.1)	9.8	(9.2)	26.3	(1.4)	70.5	(1.4)	2.2	(0.5)	0.0	
Trinidad and Tobago	2.7	(0.3)	10.7	(0.5)	28,4	(0.4)	51.0	49.5)	7.1	(0.4)	0.0	-
Tunisia	8.9	(0.6)	168	(0.5)	24.4	(1.1)	453	(1/5)	4.7	(0.5)	0.0	-
Uruguay	9.1	(1-0)	12.0	(0.4)	249	49.40	90.4	(1.3)	3.6	(0.4)	0.0	

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[Part 2/2]

	_					Osu-c	rade level					
		grade		prade		grade		grade		grade		grade
Australia	0.0	S.E. (0.6)	5.0.1	S.E. (0.0)	7.9	S.E. 60.53	72.0	S.E. (0.8)	20.0	S.E. (0.8)	9,1	0.0
Amerika	0.6	m.43	50	(1,2)	42.2	(1.4)	52.5	(1.5)	0.0	m m	0.0	(0.0)
Selgium	0.3	(0.1)	45	(0.5)	79.3	(1.1)	645	(1.1)	1.3	(0.2)	0.0	00.0
Canada	0.0	(0.0)	10	(0.2)	12.5	(0.5)	85.3	(0.5)	1,1	(0.1)	0.0	(0.0
Chile	0.7	(0.1)	29	(0.5)	17.7	40.59	73.0	(1.1)	5.6	(0.4)	0.0	(0.0)
Czech Republic	0.3	(0.2)	3.1	(0.4)	44.8	(1.5)	51.8	(1.9)	0.0	c	0.0	
Denmark	0.1	(0.0)	10.0	(0.7)	87.3	(0.5)	2.5	(0.6)	0.0	c	0.0	
Estonia	0.9	(0.3)	20.8	(0.19	75.4	(1.1)	2.7	(0.5)	0.2	(0.2)	0.0	
rinked	0.4	(01)	2.6	(0.6)	89.4	(0.0)	0.0		0.6	(0.2)	6.0	-
France	1.3	(0.9)	3.2	(0.9)	29.4	(1-5)	61.6	(1.7)	4.4	(0.8)	0.1	(01
Germany	1.1	(0.2)	8.8	(0.6)	53.4	(1.7)	36.4	(1/1)	0.3	(0.1)	0.0	(0.0
Creece	0.2	(0.2)	0.9	(0.5)	4.9	(0.7)	960	(0.9)	0.0		0.0	
Hungary	2.3	(0.7)	59	(1.1)	65 4	(1.6)	26.2	(1.2)	0.2	(0.1)	0.0	
torked treland	6.1	(0.1)	2.0	82.40	57.3	(0.1)	25.7	(0.2)	21	(0.2)	0.0	
treland	0.1	(0.1)	9.1	(0.1)	15.9		83.8	(1.1)	62	(0.1)	0.0	60.4
Itely	0.0	00.13	1.0	(0.1)	13.5	(1 (1)	81.6	(0.7)	3.9	(0.1)	0.0	QCL4
Japan	0.2	(0.1)	0.0	(0.2)	13.5	(61.6)	100.0	(0.0)	0.0	(0.3)	0.0	
Korea	0.0		0.0		3.6	(1.0)	35.6	(0.0)	0.8	(0.1)	00	
Lorenbourg	0.4	(2.1)	10.6	(0.3)	50.6	EL40	38.0	(0.3)	0.2	(0.1)	0.0	
Mexico	1.5	(0.1)	61	(0.49	31.5	(0.7)	60.1	(0.3)	0.8	(0.1)	0.0	40,4
Netherlands	6.1	40.10	2.3	(0.4)	43.4	(1.4)	53.5	(1.3)	0.7	(0.2)	0.0	266
New Zealand	0.0	e	0.0	(0 4)	0.1	(0.1)	4.8	(0.5)	898	40,61	3.6	(0.5
Norway	0.0	-	0.0	-	0.4	(0.1)	29.4	(0.2)	0.1	(0.1)	0.0	Ter.
Poland	0.6	(0.2)	2.5	(0.3)	95.6	(0.7)	1.3	(0.4)	0.0		0.0	
Portugal	1.4	(0.2)	7.7	(0.8)	25-1	0.4	65.4	(1-9)	9.4	(0.1)	0.0	
Slovak Republic	0.7	(0.25	1,5	(0.3)	31.4	(1.89	62.1	(2.1)	43	40.50	0.0	10.0
Slovenia	0.0		0.0	c	1.9	(0.7)	903	(0.8)	7.8	40.59	0.0	
Spain	0.1	(0.1)	7.6	10.49	24.2	(0.79	68.0	(0.8)	0.0	40.69	0.0	
Sweden	0.1	(0.1)	23	(0.3)	95.4	(0.7)	2.2	(0.7)	0.0	c	0.0	
Switzerland	0.4	(0.1)	12.9	(0.5)	62.6	(1.8)	22.7	(2.0)	1.6	(0.6)	0.0	
Turkey	0.4	(0.2)	2.9	(0.8)	19.8	(1.3)	72.3	(1.6)	4.4	(0.4)	0.2	(0.1
United Kingdom	0.0	c	0.0	c	0.0	c	1.0	(0.1)	98.1	(0.1)	0.9	(0.1
United States	0.0	С	0.2	(0.2)	8.5	(0.7)	68.4	(1.1)	22.8	(1.0)	0.1	(0.1
OCCD average	0.5	(0,1)	50.	(0.1)	15.6	621	55,8	(0.2)	432	(0.1)	0.5	90,0
Albania	02	(0.1)	18	(0.4)	47.6	(2.3)	50.2	(2.3)	0.2	(01)	0.0	-
Argentina	3.6	(62.5%	10.7	(1.5)	18.4	(1.2)	62.3	(2.2)	4.9	(0.6)	0.0	
Azerbaijan	0.6	(0.3)	5.8	(0.6)	510	(1.5)	42.1	(1.4)	0.4	(0.1)	0.0	
tranil	5.4	(0.4)	15.3	(0.6)	37.1	(0.9)	39.7	(0.9)	2.5	(0.2)	0.0	
Sulgaria	0.9	(0.3)	4.6	(0.7)	20 č	(1.0)	3.9	(0.7)	0.0	C	0.0	
Colombia	3-3	(0.4)	91	(9.8)	22.4	(1-4)	42.2	[1-1)	23-0	(1-1)	0.0	
Creatia	0.0	c	0.2	(0.2)	758	(0.6)	24.1	(0.5)	0.0	c	0.0	
Duhai (UNE)	0.6	(0.1)	2.2	(0.2)	13-5	(0.5)	60.4	(9.6)	22-7	(0.7)	0.6	(0.1
Hong Kong-China	1.5	(0.2)	7.1	(0.6)	23.5	(0.6)	67.9	(1.0)	0.0	c	0.0	
Indonesia.	1.2	(0.3)	4.9	(0.8)	42.7	(3.7)	44.6	(3.8)	6.0	(1.1)	0.6	(0.5
				(0.3)	6.5	80.71	92.1	(0.9)	CLC	c	0.0	
Jordan	0.1	(0.0)	1.3					(2.1)	0.2	(0.7)	0.0	
Jordan Kazakhstan	0.1	(0.1)	5.7	(0.5)	71.5	(2.40)	22-3					
Jordan Kazakhstan Kyngyzitze	0.1 0.4 0.1	(0.1)	5.7 7.1	(0.6)	69.9	(1.5)	22.0	(1.6)	0.9	(0.2)		
Jordan Kazakhstan Kyngyzstan Latvia	0.1 0.4 0.1 1.7	(0.1) (0.1) (0.4)	5.7 7.1 11.2	(0.5) (0.6) (0.6)	69 9 83 9	(1.5)	22.0	(1.6)	0.1	(0.1)	0.0	
Jordan Kazakhstan Kyngyzstan Latvia Liechterstein	0.1 0.4 0.1 1.7 0.6	(0.1) (0.1) (0.4) (0.4)	5.7 7.1 11.2 15.0	(0.5) (0.6) (0.6) (0.5)	69 9 83.9 74 D	(1.5) (0.8) (1.2)	22 0 3.1 10 4	(1.6) (0.4) (1.6)	0.1	(0.1) c	0.0	
Jordan Kazakhstan Kyngyzitan Latvia Licchtenstein Lithunsia	0.1 0.4 0.1 1.7 0.6 0.3	(0.1) (0.1) (0.4) (0.6) (0.1)	5.7 7.1 11.2 15.0 8.1	(0.5) (0.6) (0.6) (0.5) (0.5)	69 9 83.9 74 0 81.9	(1.5) (0.8) (1.2) (0.79	3.1 10.4 9.6	(1.6) (0.4) (1.6) (0.7)	0.1 0,0 0.0	(0.1) c (0.0)	0.0	
Jordan Kazakhstan Kyngyzitan Latvia Licchtenstein Lithuseita Macao-China	0.1 0.4 0.1 1.7 0.6 0.3 4.4	(0.1) (0.1) (0.4) (0.6) (0.1) (0.1)	5.7 7.1 11.2 15.0 8.1 16.3	(0.5) (0.6) (0.6) (0.5) (0.8) (0.8)	69 9 83.9 74 0 51.9 34.9	(1.5) (0.8) (1.2) (0.7) (0.7)	22.0 3.1 10.4 9.6 43.9	(1.6) (0.4) (1.6) (0.7) (0.2)	0.1 0.0 0.0 0.5	(0.1) c (0.0) (0.1)	0.0 0.0 0.0	
Jordan Kazakhstan Kyngyzstan Latvia Litchtarnatein Lithuanta Macan-China Montenegro	0.1 0.4 0.1 1.7 0.6 0.3 4.4 0.0	(0.1) (0.1) (0.4) (0.6) (0.1) (0.1)	5.7 7.1 11.2 15.0 8.1 16.3 2.0	(0.5) (0.6) (0.6) (0.5) (0.8) (0.2) (1.4)	69 9 83 9 74 0 81 9 34.9 80 3	(1.5) (0.8) (1.2) (0.2) (0.2) (0.2)	22 0 3.1 10 4 9.6 43 9 17.8	(1.6) (0.4) (1.6) (0.7) (0.2) (0.4)	0.1 0,0 0.0 0.5 0.0	(0.1) c (0.0) (0.1) c	0.0 0.0 0.0 0.0	
Jordan Kazakhstan Kazakhstan Latvia Liochtenstein Liihunsta Macas-China Montenegro Fanama	0.1 0.4 0.1 1.7 0.6 0.3 4.4 0.0 2.4	(0.1) (0.1) (0.4) (0.4) (0.4) (0.1) (0.3) (0.6)	5.7 7.1 11.2 15.0 8.1 16.3 2.0 7.7	(0.5) (0.6) (0.6) (0.5) (0.5) (0.2) (1.4) (1.1)	699 83.9 74.0 81.9 34.9 80.3 28.7	(1.5) (0.6) (1.2) (0.9) (0.2) (1.3) (3.0)	22 0 3.1 10 4 9.6 43 9 17 8 53.8	(1.6) (0.4) (1.6) (0.7) (0.2) (0.4) (4.6)	0.1 0,0 0.0 0.5 0.0 7.5	(0.1) c (0.0) (0.1) c (1.6)	0.0 0.0 0.0 0.0 0.0	
Jordan Kazakhstan Kyrgyzstan Lutvia Licchterstein Lithuentia Macas-China Montenegro Feru	0.1 0.4 0.1 1.7 0.6 0.3 4.4 0.0 2.4 3.2	(0.1) (0.1) (0.4) (0.6) (0.1) (0.8) (0.6) (0.4)	5.7 7.1 11.2 15.0 8.1 16.3 2.0 7.2 6.5	(0.5) (0.6) (0.6) (1.5) (0.6) (0.2) (1.4) (1.1) (0.6)	69 9 83 9 74 0 81 9 34 9 80 3 28 7 15 4	(1.5) (0.8) (1.2) (0.9) (0.2) (1.3) (3.0) (0.8)	22.0 3.1 10.4 9.6 43.9 17.8 53.8 47.0	(1.6) (0.4) (1.6) (0.7) (0.2) (0.4) (4.6) (1.2)	0.1 0.0 0.0 0.5 0.0 7.5 27.9	(0.1) c (0.0) (0.1) c (1.6) (1.2)	0.0 0.0 0.0 0.0 0.0	
Jordan Kazakhstan Kazakhstan Latvia Lichtrostein Lichtrostein Lichtrostein Montenegro Fanama Feru Qatar	0.1 0.4 0.1 1.7 0.6 0.3 4.4 0.0 2.4 3.2 1.4	(0.1) (0.1) (0.4) (0.6) (0.1) (0.8) (0.6) (0.4) (0.1)	5.7 7.1 11.2 15.0 8.1 16.3 2.0 7.7 6.5 3.0	(0.5) (0.6) (0.6) (0.5) (0.8) (0.2) (1.4) (1.1) (0.4) (0.1)	69 9 83 9 74 0 81 9 34 9 80 3 28 7 15 4 12 1	(1.5) (0.8) (1.2) (0.9) (0.2) (1.5) (0.0) (0.6) (0.5)	22.0 3.1 10.4 9.6 43.9 17.8 53.8 47.0 64.9	(1.6) (0.4) (1.6) (0.7) (0.2) (0.4) (6.0) (1.2) (0.2)	0.1 0,0 0.0 0.5 0.0 7.5 27.9 18.1	(0.1) c (0.0) (0.1) c (1.6) (1.2) (0.2)	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	f0.
Jordan Kazakhstan Kyngyotan Latvia Licchtenstein Lichtenstein Lichtenstein Lichtenstein Lichtenstein Lichtenstein Lichtenstein Lichtenstein Macan-China Mostenegro Fanama Fen Qalar Romania	01 04 01 17 06 03 44 00 24 32 14	(3.1) (61) (3.4) (0.6) (0.1) (0.3) (0.6) (0.4) (0.1) (0.1)	5.7 7.1 11.2 15.0 8.1 16.3 2.0 7.7 4.5 3.0 8.1	(0.5) (0.6) (0.5) (0.5) (0.2) (1.4) (1.1) (0.6) (0.1) (1.5)	69 9 83 9 74 0 81 9 34 9 80 3 28 7 15 4 12 1 87 3	(1.5) (0.8) (1.2) (0.9) (0.2) (1.5) (0.0) (0.8) (0.2) (1.5)	22.0 3.1 10.4 9.6 43.9 17.8 53.8 47.0 64.9 4.7	(1.6) (0.4) (1.6) (0.7) (0.2) (0.4) (4.0) (1.2) (0.2) (0.6)	0.1 0,0 0.0 0.5 0.0 7.5 27.9 18.1 0.0	(0.1) c (0.0) (0.1) c (1.6) (1.2) (0.2) c	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	for:
Jordan Kazakhstan Kyngyratan Lahvia Lichterstein Lithusetis Macas-China Mostenegro Fanama Frou Qalar Romanis Romanis Rossian Federation	01 04 01 17 06 03 44 00 24 32 14 00 05	(0.1) (0.1) (0.4) (0.4) (0.1) (0.1) (0.6) (0.4) (0.1) (0.1)	5.7 7.1 11.2 15.0 8.1 16.3 2.0 7.2 6.3 3.0 8.1 9.7	(0.5) (0.6) (0.5) (0.5) (0.2) (1.4) (1.1) (0.6) (0.1) (1.5) (0.8)	69 9 83 9 74 0 81 9 34 9 80 3 28 7 15 4 12 1 87 3 59 0	(1.5) (0.8) (1.2) (0.9) (0.2) (1.5) (0.0) (0.8) (0.2) (1.5) (2.0)	22.0 3.1 10.4 9.6 43.9 17.8 53.8 47.0 64.9 4.7 29.8	(1.6) (0.4) (1.6) (0.7) (0.2) (0.4) (4.6) (1.2) (0.2) (0.6) (1.8)	0.1 0.0 0.5 0.0 7.5 27.9 18.1 0.0	(0.1) c (0.0) (0.1) c (1.6) (1.2) (0.2) c (0.2)	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	łū:
lordan Kazakhstan Kazakhstan Kazakhstan Karakhstan Litchtrentein Litchtrentein Litchtrentein Litchtrentein Macaa-China Macaa-C	01 0.4 01 1.7 0.6 0.3 4.4 0.0 2.4 3.2 1.4 0.0 0.5	(3.1) (0.1) (3.4) (0.6) (0.1) (0.3) (0.6) (0.4) (0.1) (0.1) (0.1)	5.7 7.1 11.2 15.0 8.1 16.3 2.0 7.7 4.5 3.0 8.1 9.7 1.4	(0.5) (0.6) (0.6) (0.5) (0.5) (0.2) (1.4) (0.1) (0.1) (0.1) (0.5)	69 9 83 9 74 0 81 9 34 9 80 3 28 7 15 4 12 1 87 3 59 0 96 4	(1.5) (0.5) (1.2) (0.5) (0.5) (0.6) (0.6) (0.6) (0.6)	22.0 3.1 10.4 9.6 43.9 17.8 53.8 47.0 64.9 4.7 29.8 2.0	(1.6) (0.4) (1.6) (0.7) (0.2) (0.4) (4.0) (1.2) (0.2) (0.8) (0.2)	0.1 0.0 0.5 0.0 7.5 27.9 18.1 0.0 1.0	(0.1) c (0.0) (0.1) c (1.6) (1.3) (0.2) c (0.2)	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	łtz:
Jordan Kazakhstan Kazakhstan Karjayatan Latvia Lichterutein Lichterutein Lichterutein Hacsa-China Mostenegro Fanama Frou Qalar Romanta Bossian Federation Serbia Serbia	0.1 0.4 0.1 1.7 0.6 0.3 4.4 0.0 2.4 3.2 1.4 0.0 0.5	(0.1) (0.1) (0.4) (0.6) (0.1) (0.1) (0.1) (0.4) (0.1) (0.1) (0.1) (0.1) (0.1)	57 7.1 11.2 15.0 8.1 16.3 2.0 7.7 4.5 3.0 8.1 9.7 1.4 3.0	(0.5) (0.6) (0.6) (0.5) (0.6) (0.2) (1.4) (0.1) (0.1) (0.1) (0.5) (0.5)	69 9 83 9 74 0 81 9 34 9 80 3 28 7 15 4 12 1 87 3 59 0 96 4 36 1	(1.5) (0.5) (1.2) (0.7) (0.2) (1.3) (0.6) (0.6) (0.6) (0.6) (0.6) (1.6)	22.0 3.1 10.4 9.6 43.9 17.8 53.8 47.0 64.9 4.7 29.8 2.0 59.5	(1.6) (0.4) (1.6) (0.7) (0.2) (0.4) (4.0) (1.2) (0.2) (0.2) (1.8) (0.2) (1.8)	0.1 0.0 0.5 0.0 7.5 27.9 18.1 0.0 1.0 0.0	(0.1) c (0.0) (0.1) c (1.6) (1.2) (0.2) c (0.2) c	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	(0.c
Jordan Kazakhstan Kyzgycztan Lutvia Lutvia Lutvia Lutvia Lutvia Lutvia Mostenegro Fanema Feru Qalar Romania Bossian Federation Skripkai-China	01 0.4 01 17 06 03 4.4 00 2.4 00 0.5 01 08	(0.1) (0.1) (0.4) (0.6) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.2) (0.2)	57 7.1 11.2 15.0 8.1 16.3 2.0 7.7 4.5 3.0 8.1 9.7 1.4 3.0 2.3	(0.5) (0.6) (0.6) (0.2) (0.1) (1.4) (1.1) (0.6) (0.1) (1.5) (0.5) (0.5) (0.1)	83 9 74 0 81 9 34.9 80 3 28.7 13 4 87.3 59.0 96.4 36.1 33.7	(1.5) (0.8) (1.2) (0.9) (0.2) (1.3) (0.8) (0.8) (0.8) (0.8) (0.9) (0.9) (0.9) (0.9) (0.9) (0.9)	22.0 3.1 10.4 9.6 43.9 17.8 53.8 47.0 64.9 29.8 2.0 59.5 62.7	(1.6) (0.4) (1.6) (0.7) (0.2) (0.4) (6.6) (1.2) (0.2) (0.4) (0.2) (1.9) (0.2) (1.9)	0.1 0.0 0.0 0.5 0.0 7.5 27.9 18.1 0.0 0.0 0.0	(0.1) c (0.0) (0.1) c (1.4) (1.2) (0.2) c (0.2) c (0.2) c	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	(0.0 (0.0
Jordan Kazakhstan Karagentan Lahvia Lahvia Lahvia Lahvia Lahvia Lahvia Lahvia Lahvia Lahvia Mosteregro Fran Fran Romania Fran Serbia Sanjan Federation Serbia Singapore Chieses Dige	0.1 0.4 0.1 1.2 0.6 0.3 4.4 0.0 0.2 1.4 0.0 0.5 0.1 0.8	(0.1) (0.1) (0.4) (0.0) (0.1) (0.1) (0.1) (0.6) (0.4) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1)	57 7.1 11.2 15.0 8.1 16.3 2.0 7.7 4.5 3.0 8.1 9.7 1.4 3.0 2.3 0.0	(0.5) (0.6) (0.6) (0.5) (0.8) (0.1) (1.5) (0.1) (1.5) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1)	899 83.9 74.0 81.9 34.9 80.3 28.7 15.4 12.1 87.3 59.0 96.4 38.1 33.7	(1.5) (0.8) (1.2) (0.9) (0.2) (1.3) (0.8) (0.8) (0.8) (0.9) (0.9) (0.9) (0.9) (0.9) (0.9) (0.9) (0.9)	22 0 3.1 10 4 9.6 439 17.8 53.8 47.0 64.9 4.7 29.8 2.0 59.5 62.7 66.3	(1.6) (0.4) (0.6) (0.7) (0.2) (0.4) (6.6) (1.2) (0.2) (0.8) (0.2) (1.8) (0.2) (1.6) (0.4) (1.6)	0.1 0.0 0.5 0.0 7.5 27.9 18.1 0.0 0.6 0.0	(0.1) c (0.0) (0.1) c (1.6) (1.2) (0.2) c (0.2) c (0.0)	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	(0.0
Iordan Kazakhstan Kazakhstan Kayazkota Larisi Lichtenstein Lichtenstein Lichtenstein Lichtenstein Lichtenstein Recase-Chiea Meestenergen Fran Fran Gustan Romanna Fran Sammai Sendul Shaughal-China Singapor Chieses Tajee Thilland	01 0.4 01 1.7 06 0.3 4.4 0.0 2.4 3.2 1.4 0.0 0.5 0.1 0.8 1.2 0.0	(0.1) (0.1) (0.4) (0.6) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.2) (0.2) (0.2)	57 7.1 11.2 15.0 8.1 16.3 2.0 7.7 6.5 3.0 8.1 9.7 1.4 3.0 2.3 0.0	(0.5) (0.6) (0.6) (0.6) (0.6) (0.1) (0.1) (0.1) (0.1) (0.2) (0.2) (0.2) (0.2) (0.3)	89 9 83 9 74 0 81 9 80 3 28 7 15 4 12 1 87 3 59 0 96 4 38 1 33 7 20 9	(1.5) (0.5) (1.2) (0.7) (0.2) (0.4) (0.4) (0.4) (0.4) (0.4) (0.5) (1.5) (1.5) (1.5) (1.5)	220 3.1 10.4 9.6 43.9 17.8 53.8 47.0 64.7 29.8 2.0 595 62.7 66.1 75.8	(1.6) (0.4) (0.6) (0.7) (0.2) (0.4) (4.6) (1.2) (0.2) (1.8) (0.2) (1.8) (0.2) (1.6) (1.6)	0.1 0.0 0.5 0.5 0.7 27.9 18.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	(0.1) c (0.0) (0.1) c (1.6) (1.2) (0.2) c (0.2) c (0.2) c (0.0) (0.0)	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	(0.0
Jordan Kazakhstan Karagentan Lahvia Lahvia Lahvia Lahvia Lahvia Lahvia Lahvia Lahvia Lahvia Mosteregro Fran Fran Romania Fran Serbia Sanjan Federation Serbia Singapore Chieses Dige	0.1 0.4 0.1 1.2 0.6 0.3 4.4 0.0 0.2 1.4 0.0 0.5 0.1 0.8	(0.1) (0.1) (0.4) (0.0) (0.1) (0.1) (0.1) (0.6) (0.4) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1)	57 7.1 11.2 15.0 8.1 16.3 2.0 7.7 4.5 3.0 8.1 9.7 1.4 3.0 2.3 0.0	(0.5) (0.6) (0.6) (0.5) (0.6) (0.2) (1.4) (0.1) (1.5) (0.8) (0.2) (0.2) (0.2) (0.3) (0.3) (0.4) (0.3) (0.4) (0.3)	899 83.9 74.0 81.9 34.9 80.3 28.7 15.4 12.1 87.3 59.0 96.4 38.1 33.7	(1.5) (0.8) (1.2) (0.9) (0.2) (1.3) (0.8) (0.8) (0.8) (0.9) (0.9) (0.9) (0.9) (0.9) (0.9) (0.9) (0.9)	22 0 3.1 10 4 9.6 439 17.8 53.8 47.0 64.9 4.7 29.8 2.0 59.5 62.7 66.3	(1.6) (0.4) (0.6) (0.7) (0.2) (0.4) (6.6) (1.2) (0.2) (0.8) (0.2) (1.8) (0.2) (1.6) (0.4) (1.6)	0.1 0.0 0.5 0.0 7.5 27.9 18.1 0.0 0.6 0.0	(0.1) c (0.0) (0.1) c (1.6) (1.2) (0.2) c (0.2) c (0.0)	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	(0.0



Students in or out of the regular education system in Argentina

The low performance of 15-year-old students in Argentina is, to some extent, influenced by a fairly large proportion of 15-year-olds enrolled in programmes outside the regular education system. Table A2.5 shows the proportion of students inside and outside the regular education system, alongside their performance in PISA 2009.

Percentage of students and mean scores in reading, mathematics and science, according to whether

Table A2.5 students are in or out of the regular education system in Argentina

					Meas per	formance .		
		ntilege adents	Reading		Mathematics		Sci	noi .
	*	S.E.	Morn	S.E.	Mean	S.E.	Moen	S.E.
Students in the regular educational system'	60.9	2.2	439	5.1	421	4.8	439	4.9
Students out of the regular educational system ^a	39.1	2.2	335	80	337	6.7	341	8.3

^{1.} Students who are not in grade 10 or 11 and in programme 3, 4, 5, 6, 7 or 8.
2. Students who are in grade 10 or 11 and in programme 3, 4, 5, 6, 7 or 8.
Students Wapp http://dx.doi.org/10.1787/88855253190



ANNEX A3

STANDARD ERRORS, SIGNIFICANCE TESTS AND SUB-GROUP COMPARISONS

The statistics in this report represent estimates of national performance based on samples of students, other than wakes that could be calculated for every student in every country bud answered over question. Consequently, it is important to measure the degree of uncertainty of the estimates. In 78%, such estimate has an associated degree of uncertainty, which is expressed through a standard error. He was of confidence intervals parends a vary in make inferences about the pepulation reason and proportions now in the performance of the performance of proportions of the performance of the statistic and associated as the confidence of the performance of

In many cases, modes are primarily interested in whether a given value in a particular country is different from a second value in the same or another country e.g. whether girk in a country perform better than boys in the same country. In the tables and figures used in this report, differences are behieful as statistically significant when a difference of that size, smaller or larger, would be observed less than 5% of the time, if there were actually no difference in corresponding population values. Similarly, the risk of reporting a correlation as significant if these, in fact, no correlation between two measures, as contained a 5%.

Throughout the report, significance tests were undertaken to assess the statistical significance of the comparisons made.

Gender differences

Gender differences in student performance or other indices were tested for statistical significance. Positive differences indicate higher scores for boys, while negative differences indicate higher scores for girls. Generally, differences marked in bold in the tables in this volume are statistically significant at the 59% confidence level.

Performance differences between the top and bottom quartiles of PISA indices and scales

Differences in average performance between the top and bottom quarters of the PISA indices and scales were tested for statistical significance. Data marked in hold indicate that performance between the top and bottom quarters of students on the respective index is statistically significantly different at the 59% confidence level.



ANNEX A4

QUALITY ASSURANCE

Quality assurance procedures were implemented in all parts of PISA 2009, as was done for all previous PISA surveys.

The consistent quality and linguistic expendence of the 155, 2009 assessment instruments were facilitated by providing counties who expendent recoverations of the assessment retrainments in legisle and remark, and requiring counties open from them there assessing suderes in regulate and remarks be prepare and consolidate two independent translations using both source versions. Proceeds translation and dispations guidelines were upplied, also including instructions to electricing and similar flee translations. For each country, the translation and formet of the assessment instruments (sechaling text motions) be extending guides, questionnesses and manuals) were versified by question translates appointed by the PAA Consoliates below they were used in the PAA CONSOLIATE (SEA). The VAI CONSOLIATE (SEA) was also also that and with Study, these translation required transparent size with transparent processing and the country concerned and they were processing to the processing and the process

The survey was implemented through standardized procedures. The PISA Consortium provided comprehensive manuals that explained the implementation of the survey, including practice instructions for the work of School Co-ordinators and scripts for less dynamical to the properties of the procedures, or proposed modifications to the assessment session script, were submitted to the PISA Consortium for approval prior to verification. The PISA Consortium then verified for an include intensition and advantation of these manuals.

To establish the credibility of PSAs as well and urbined, and to encurage uniformity in administering the assessment resions. For Administration is practicaging coasisties were short using the following criticist: It was regulared that the Administration not be the ending, insthematics or science instructor of any students in the seasons be or she would administre for PSAs; and was recommended that the Tost Administration not be a member of the stuff of any school administre for PSAs; and the students of the students of

Participating countries were required to ensure that: Text Administrators worked with the School Co-collastor to prepare the assessment season, reading updating substant texticing form and discharging excluded statem, to cuttail times upgiven for the couptrible when joiled it was permissible to give extra time for the student geneticonaise; no instrument was administrated before the two one-has participations and the statement of the contribution of the contribution states on the industrial text to the contribution of the contribution of the contribution of the contribution states on the industrial condition to the contribution of th

National Project Managers were encouraged to organise a follow-up session when more than 15% of the PISA sample was not able to attend the original assessment session.

National Quality Monitors from the PISA Consortium visited all National Centres to review data-collection procedures. Finally, School Quality Monitors from the PISA Consortium visited a sample of 15 schools during the assessment. For further information on the field operations, see the PISA 2009 Technical Report (DECD, forthcoming).

Morking procedures were designed to ensure consistent and accurate application of the marking guides outland in the FISA Operations Minauli, Astional Project Antagains were registered to submit proposed modifications to these procedures to the Consortium for approval. Reliability studies to analyse the consistency of marking were implemented, these are discussed in more detail below.

Software specially designed for PISA facilitated data entry, detected common errors during data entry, and facilitated the process of data cleaning. Training sessions familiarised National Project Managers with these procedures.

For a description of the quality assurance procedures applied in PISA and in the results, see the PISA 2009 Technical Report (OECD, forthcoming).

The results of data adjustaction show that the PEA Technical Standards were fully next in all countries and economies that practicated in PEA 2007, hough for one country, some serious doubs were mixed. Analysis of the data for Arthurbian suggest that the PEA Technical Standards may not have been fully med for the following four main reasons; the order of difficulty of the clusters is reconsidered with previous experience and the outriety usine accurs loaders, life the preventing control on some items is higher than that of the highest coming countries; (ii) the difficulty of the clusters undes widely across bookiets; and visite countries of the term of arthurbian is all next extended piles and a prevention for the countries of the term of arthurbian is all next extended piles and agreement between independent codes, and was pulgad, on once items, to be too funders. Industries the control of th

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For the TSA, 2002 assessment in Austra, a dispute between tracher unless and the education minister has led to the amountement of a large of a PSA, 2002 assessment in Austra, a dispute between the left of section of relating the large of regime of the COLD common destinable cases. In from the distant, Allowigh the Austra distant ent the TSA, 2002 to chical advanted when encount of these cases, the regime transporter in regime to education allowed to education advancement has added the recondition under which the assessment was administered and could have adversely affected scaled motivation to respond to the TSA stack. The comparability of the 2002 data with data from extra tracking and the TSA stack for excession was administered and excession of the tracking and the scale of the contraction of the country of the



ANNEX AS

DEVELOPMENT OF THE PISA ASSESSMENT INSTRUMENTS

The development of the PISA 2009 assessment instruments was an interactive process between the PISA Consortium, various international expert groups working under the auspices of the OECD, the PISA Governing Board and national experts. A panel of international experts led, in close consultation with participating countries, the identification of the range of skills and competencies in the respective assessment domains that were considered to be crucial for an individual's capacity to fully participate in and contribute to a successful modern society. A description of the assessment domains - the assessment framework - was then used by participating countries, and other test development professionals, as they contributed assessment materials. The development of this assessment framework involved the following steps:

- Development of a working definition for the assessment area and description of the assumptions that underlay that definition:
- Evaluation of how to organise the set of tasks constructed in order to report to policy-makers and researchers on performance in each assessment area among 15-year-old students in participating countries;
- Identification of a set of key characteristics to be taken into account when assessment tasks were constructed for international
- Operationalisation of the set of key characteristics to be used in test construction, with definitions based on existing literature and the experience of other large-scale assessments:
- Validation of the variables, and assessment of the contribution that each made to the understanding of task difficulty in
- participating countries; and Preparation of an interpretative scheme for the results.

The frameworks were agreed at both scientific and policy levels and subsequently provided the basis for the development of the assessment instruments. The frameworks are described in Assessing Scientific, Reading and Mathematical Literacy. A Framework for PISA 2009 (OECD 2009a). They provided a common language and a vehicle for participating countries to develop a consensus as to the measurement goals of PISA.

Assessment items were then developed to reflect the intentions of the frameworks and were piloted in a Field Trial in all participating countries before a final set of items was selected for the PISA 2009 Main Study, Tables AS.1, AS.2 and AS.3 show the distribution of PISA 2009 assessment items according to the various dimensions of the PISA frameworks.

Due attention was paid to reflecting the national, cultural and linguistic variety among OECD countries. As part of this effort the PISA Consortium used professional test item development teams in several different countries. In addition to the Items that were developed by the international experts working with the PISA Consortium, assessment material was contributed by participating countries. The Consortium's multi-national team of test developers deemed a substantial amount of this submitted material as appropriate given the requirements laid out by the PISA assessment frameworks. As a result, the item pool included assessment items from Australia, Belgium, Canada, China, Colombia, Finland, France, Germany, Greece, Hungary, Japan, Korea, Mexico, the Netherlands, New Zealand, Norway, Portugal, Serbia, Sweden, Switzerland and the United States.

	Number of items	Number of multiple-choice form	Number of complex multiple-choice stems	Number of closed-constructed response items	Number of open-constructed response items	Number of short response items
Distribution of reading items by format						
Continuous	81	36	6	4	31	- 4
Non-continuous	38	10	3	7	12	6
Moved	7	4	1	0	1	1
Multiple	5	.0	2	2	1	0
Total	131	50	12	13	45	11
Distribution of reading items by aspect of reading	task					
Access and retrieve	31	6	3	9	3	10
Integrate and interpret	67	38	- 6	- 4	18	1
Reflect and evaluate	33	8	1	0	24	
Total	131	52	10	13	45	11
Distribution of reading items by situation						
Personal	37	10	2	5	17	3
Public	35	19	2	2	10	2
Occupational	21	- 4	3	3	10	- 1
Educational	38	19	3	3	8	5
Total	121	52	10	13	45	11

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[Part 1/1]
Table A5.2 Distribution of items by the dimensions of the PISA fremework for the essessment of

	Number of stees	Number of multiple-choice items	Number of complex multiple-choice stems	Number of closed-constructed response items	Number of open-constructed response items	Number of short response items
Distribution of mathematics items by	topic					
Quartity	11	3	2	2	D	4
Space and shape	8	2	1		3	1
Change and relationships	9		2	0	5	9
Uncertainty	7	3	2	0	0	2
Total	35	9	7	3	8	8
Distribution of mathematics items by co	impetency cluster					
Reproduction	9	5		1		2
Connection	18	1	- 6	1	4	- 6
Reflection	8	3	1	1	3	D
Total	35	9	7	3	8	5
Distribution of mathematics items by sit	aution or contest					
Personal	4	3	1	D	D	D
Public	13	5	2	1	2	3
Occupational	1		D	0	D	1
Educational	4	0	2	2	c	
Scientific	12		2	D D	5	4
Into-mothemotical	1	0	0	D		D
Total	35	,	7	3		8

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Table A5.3 Distribution of items by the dimensions of the PISA framework for the assessment of science

	Number of items	Number of multiple-choice firms	Number of complex multiple-choice from	Number of closed-constructed response items	Number of open-constructed response items	Number of short proporus items
Distribution of science items by content area	-					
Knowledge of science "Physical system"	6	3	2	1	D	0
Knowledge of science "Living systems"	9	2	3	0	- 4	0
Knowledge of science "Earth and space"	7	3	2	0	2	0
Knowledge of science 'Technology systems'	- 4		2	0		0
Knowledge about science "Scientific engages"	14	4	6	- 0	4	0
Knowledge about science "Scientific organitions"	13	5	2	0	6	0
Total	53	18	17	1	17	0
Distribution of science items by science competencia	0					
lokert flying severtific sauces	13	- 4	6	D	3	D
Explaining photomena scientifically	22	8	7	1	6	0
User scartific outlinor	18		4			D
Total	53	15	17	1	17	0
Distribution of science items by situation or context	10000		X			
Personal	12	5	- 4		2	0
Social	30	10	8	0	12	0
Clobal	11	3	5	D	3	D
Testal	53	18	17	1	17	D
Total	131	32	10	13	43	11

SeatLink @ http://dx.doi.org/10.1787/8889323432

Each Item included in the assessment pool was nated by each country) for potential cultural, gender or other blas, it is for relevance to 15 years dels in school and non-school contexts, and ligh for intrillishing was level of interest. A finite consultation of countries on the litem pool was undersaken as part of the process of developing the Field Trial assessment instruments. A second consultation was undersaken after the Field Trial to assist in the final specietion of items for the Main Study.

rollowing the Field Ind, in which all items were tested in all participating countries, test developers and open groups considered a variety of aspects in selecting the items for the Main Study; i) the results from the Field Trial, ii) the outcome of the item review from countries, and iii) queries received during the Field Trial marking process. The test developers and expert groups selected a final set of items in September 2008 which, following a period of negotiation, was adopted by participating countries at both scientific and policy levels.

The Main Survey included 37 reading units with 131 test items. 19 of these units originated from material submitted by participating countries. 16 of the units came from one or other of the Consortium teams, and two originated as IALS material. The Main Survey instruments also finded et 24 mathematics units (33 items) and 18 science units (33 items).



Five item types were used in the PISA assessment instruments:

- Open-constructed response items: These items required students to construct a longer response, allowing for the possibility
 of a broad range of divergent, individual responses and differing viewpoints. These items usually asked students to relate
 information or ideas in the stimulus text to their own experience or opinions, with the acceptability depending less on the
 position taken by the student has on the ability to use what they had read when justifying or epitining that position.
- selected items, partial credit was awarded for partially correct or less complete answers. All of these items were marked by hand.

 **Closed-constructed response items: These items required students to construct their own responses, there being a limited name of acceptable answers. Note of these items were sorted dichotomously with a few items included in the marking profits.
- Short-response items: These items required students to provide a brief answer, as in the closed-constructed response items, but here there was a wider range of possible answers. These items were marked by hand, thus allowing for partial credit as well as dichotomous exoring.
- Complex multiple-choice items: These items required students to make a series of choices, usually binary. Students indicated
 their answer by circling a word or short phose (for example "yes" or "no") for each point. These items were scored dichotomously
 for each choice, yielding the possibility of full or partial credit for the whole item.
- Multiple-choice items: These items required students to circle a letter to indicate one choice among four or five alternatives, each of which might be a number, a word, a phrase or a sentence. They were scored dichotomously.

PISA 2009 was designed to yield group-level information in a broad range of content. The PISA assessment of reading included material allowing for a total of 270 minutes of assessment time. The mathematics and science assessments each comprised 90 minutes of assessment time. Each student, however, sat assessments lasting a total of 120 minutes.

In order to cover the intended bened range of content while meeting the limit of 120 minutes of inflowlidual assessment times, the assessment rane was divided into cultars, organized into nistence bookleds for each country, there were seven 10-minutes reading clusters, fires the minute clusters for radiencials and there 10-minute clusters for refere. Since reading was the major domain in 1852 ACOD9, every studied was administered some reading less map part of the assessment.

Countries that had demonstrated a low mean proficiency in reading in previous PSA cycles (or, if they were new countries, were operated to proform as a chilelely low level for the basis of their Pidf fail sends low enterfield the opinion or religious two or the standard reading clusters with two assier clusters of roading times. Nevertheless, because five of the seven reading clusters were administered in common series all countries, the proficements of countries opining for the easier clusters could be measured on the sense read as that of the countries administrating the standard assessments.

This assessment design was balanced so that each item cluster appeared four times, once in each of four possible locations in a booklet. Further, each cluster appeared once with each other cluster. The final design, therefore, ensured that a representative sample responded to each cluster of items.

For further information on the development of the PISA assessment instruments and the PISA assessment design, see the PISA 2009 Technical Report (OECD, forthcoming).



NNEX A6

RELIABILITY OF THE CODING OF RESPONSES TO OPEN-ENDED ITEMS

The PEA sessioner incruments contain assessment items proceeded in a mixture of formathypes, including lines for which tailed responses on the scored automatically buch an antiple choice items) and open encoded lines for which it stander coder must interven manually to assign student responses to the pre-defined response categories. This requirement for marval coding must interven manually to assign student responses to the pre-defined response categories. This requirement for marval coding of student responses to certain assessment lines, prefronted by codes standed at the satisfial level, influctions the possibility of national-level basis in the resulting PEA scores codes in Country N. may interpret and apply the coding instructions more or less lemented or handly the coveragion with codes in Country N.

The process of coding responses to open-ended items was an important step in ensuring the quality and comparability of PISA results.

Detailed guidelines contributed to a response coding process that was accurate and consistent across countries. The coding guidelines consisted of coding manuals, funaling materials for recursing coders, and worshop materials used for training of national coders. Before national training, the PSA Consortium organized training sessions to present the material and to train the coding co-ordinators from the participant occurrence. The later were from expossible for training their antional coders.

For each assessment time, the relevant coding manual discrebed the aim of the question and flow to code students' reproves to each hem. This described the parties of the code in the code of the code

In each country, a sub-sample of 100 assessment booklets of each type was coded independently by 4 coders and examined by the PSA Consortium. In order to examine the consistency of this coding process in more detail, be PSA Consortium conducted an inter-coder reliability study on the sub-sample of these 100 booklets. For details, see the PSA 2009 Technical Report (OECD, forthcoming.).

At the between country level, an International Coding, Review (CSV was Implemented to check on the consistency of applying response coding standards across all participating countries. The objective of this study was to estimate potential bias (either lentency or hardness) in the coding standards applied in each National Centre, and to express this potential bias in "PISA units". The CR was implemented in two stages as discribed below.

Overview of International Coding Review procedures

An International Coding Review (ICR) was conducted as one of the PSA 2009 quality control procedures in order to investigate the possibility of systematic differences among countries in the coding of open-orded inems. The clipicitive of this review to estimate potential bias (either levineary or handness) in each country (FSA reading Illerary results, and to express this potential bias in the same unless that are used or proof country performance on the FSA reading scales.

For the PSA 2009 KX, the Consortium identified a set of stans for factions in the study, "two booklets were chosen Booklet Psi containing eight manually coded reading items from Cluster R22 and Booklet 12 (containing its manually coded reading items from Cluster R7.) These items were also among from used previously in the multiple-coding study and had been coded four times by national coders as part of that study. The code assigned by the fourth national coder was entered into PSA data and is referred to as the "reported code."

For each country-by-language unit from a National Centre's data, up to 80 PTSA records' (eachuding those with a high number of missing responses for the multiple-coded items) were selected by the PTSA Consortium from the data from Booklets B and 12. The student IDs of the selected records were sent to the National Centres in an Excel file.

In the PISA National Centres, the corresponding booklets were located and scanned and those scanned images were sent to the PISA Consortium's linguistic verification expert. Where scanning was not possible, the original booklets were sent by post. The PISA Consortium's linguistic verification expert then erased the national coders' marks on all neceived copies of the booklets.

Coding of each student's response was then carried out a fifth time by a member of a team of independent reviewers who had been trained specifically for this task. These independent reviewers had previously been involved as part of the international translation verification team. The code assigned by the independent reviewer is referred to as the "verifier code".

-
- For some adjudicated entries or certain languages all booklets were selected if, for a variety of reasons, there were fewer than 80 PISA records per booklet per country-by-language unit in the multiple coding exercise.



Reported and wriffer scores were then calculated. These were obtained by scaling all the CRS students' data from all countries from Clearter XI in Booklet to Packleding automatically year counted and provemed off responses). Scaling the reported code for the open-ended responses produced the "reported score". Scaling using the venifier code for the open-ended responses produced the "reported score". Scaling using the venifier code for the open-ended responses produced the "references".

Each country's scores were then extracted and the reported scores and the verifier scores were compared. This competition involved calculating the mean difference between the reported scores and the extrind scores of sea, to causing for both localities. A VS is confidence unless that the contract of t

Table A6.1	Examples of a	n initially lenient resu	it and a	neutral result			
		Mean difference between reported		Standard	Confiden	ce interval	
-		A		111111		445.4	

		between reported					
CNT	Language	and verifier scores	N	deviation	Low	High	Harshness(-)
aaa	2022	15.17	80	41.53	5.93	24.41	+
bbb	bbbb	-1.26	78	26.17	-7.16	4.641	

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In addition, two types of inconsistencies between national codes and verifier codes were flagged:

- when the verifier code was compared with each of the four national codes and fewer than two matches were observed; and
- when the average raw score of the four national coders was at least 0.5 points higher or lower than the score based on the verifier code.

Cases are flagged if at least one of these conditions were met. Examples of flagged cases are given in Table A6.2.

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leniency or harshness.

For each country, the percentage of Bagged cases (2) was calculated for each ten in each booklet. If more than 10% of cases were Bagged for a country, the litem was highlighted. In Table 4.6.7, we happeted calcunatives are presented. Country A, (aas) has a high percentage of Bagged records for four out of six times. This other corresponds to either leniency or hardwares of codings, Country B (Bible) and you be tress with a compensatively high percentage of Bagded records. This usually does not translate into

Table A6.3 Hypothetical examples of percentages of flagged cases for Booklet 12

Country	R432Q05	R446Q06	R456Q02	R456Q06	R460Q01	R466Q02	Total	N
233	26.25	8.75	15 00	11.25	17.50	2.50	13.54	80
bbb	5.13	11.54	10.26	1.28	7.69	1.28	6.20	78

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Items R111Q02B and R111Q06B in Booklet B had a high percentage of disagreement in nearly all countries. Therefore these items were excluded from calculations of leniency/harshness and they were investigated separately.

After excluding Berns 8111QQSB and 8111QQSB, a country was selected for further adjudication if it was found initially to be lemient or hard for 60th booklets. This improved additional coding by senior: Consortium staff or a normal margin of 101 study responses from each identified country. The sampled student responses were translated back into English, and the responses together with the four antonical Codes and the verifier code from selected cases were reviewed by the international adjudication.

The systematic hardness or leniency of coder on the national PISA score for each domain is confirmed if the percentage of agreement between verifier and adjudicator is above 50% for each booklet. The results of the International Coding Review will be reported in the PISA 2009 Technical Report (OECD, Intercoming).

These results are further investigated by a Consurium adjudicator to confirm that the lemency or harshness was found to be on the national coder's side rather than a lenient or harsh international verifier.





Annex B

TABLES OF RESULTS

Annex B1: Results for countries and economies

Annex B2: Results for regions within countries

Adjudicated regions

Data for which adherence to the PISA sampling standards and international comparability was internationally adjudicated.

All tables in Annex B are available on line

Non-adjudicated regions
Data for which adherence to the PISA sampling standards at subnational levels was assessed by the countries concerned.

In these countries, adherence to the PISA sampling standards and international comparability was internationally adjudicated only for the combined set of all subnational entities.

Note: Unless otherwise specified, all the data contained in the following tables are drawn from the OECD PISA Database:



RESULTS FOR COUNTRIES AND ECONOMIES

[Part 1/1] Percenta

								Proficie	ncy level							
	fices the	Level 1b n 262.04 points)	(from 2) less than score	2.94 to	(from 3 less the	el 1a 34.75 to s 407.47 points)	tes (from 6 less than	el 2 07.47 to	Lev (from 4 less than	el 3 80,18 to	(from 5 less that	rel 4 52.89 to n 625.61 points)	less than	25.61 to	(above	rel 6 698.3 points
	46.	5.5.	- 5	S.F.	%	S.F.	%	S.E.	15	S.E.	46	S.E.	46	S.F.	16	5.8.
Australia	1.0	(0.1)	3.3	(0):33	10.0	0.49	20.4	60.53	28.5	90.71	24.1	(0.7)	10.7	(0.5)	2.1	{U.30
Austria	1.9	60.40	8.1	89.85	17.5	(1.0)	24.1	(1.0)	26.0	40.50	17.4	(0.9)	4.5	(0.4)	0.4	(0.1)
3 digium	1.1	(0.3)	4.7	(0.5)	11.9	0.0	20,3	(9.7)	25.8	10.59	24.9	(0.7)	10.1	(0.5)	1,1	[0.2
Canada	0.4	(0.1)	2.0	(0.2)	7.9	10.30	20.2	(0.4)	30.0	10.70	268	m.64	11.0	(0.4)	1.8	10.2
Chile	1.3	(0.2)	7.4	60.50	219	0.0	33.2	(1.1)	25.6	11.10	9.3	(0.7)	13	60.20	0.0	10.0
Czrch Republic	0.8	(0.3)	5.5	(0.6)	16.8	CLD	27.4	(1.0)	27 D	0.0	17,4	(1.0)	4.7	40.40	0.4	00.1
Deamark	0.4	(0.1)	3.1	40.35	11.7	60.79	26.0	80.59	33.1	(1.2)	20.9	(1.1)	4.0	(0.4)	0.3	(0.1
Estonia	0.1	(0.1)	2.4	10.40	10.6	(D 35	25.6	(1.3)	33.6	0.00	21-2	(0.4)	54	40.50	0.6	(0.1
Finland	0.7	60.13	1.5	40.21	6.4	(D.4)	16.7	90.60	701	10 00	30.6	60.90	12.9	40.73	1.6	003
France	2.3	(0.5)	5.6	(0.5)	11.8	0.80	21.1	(1.0)	27.2	(1.0)	22.4	(1.1)	8.5	(0.80	1.1	00 3
Germany	8.0	00.25	44	(0.5)	13.3	(0.6)	22.2	60.50	28.8	(1.1)	22.8	(0.9)	7.0	(0.6)	0.6	001
Greece	1.4	(0.2)	5.6	(0.9)	143	(1.1)	25.6	43.1)	29.3	(1.2)	18.2	(1.0)	5.0	(0.6)	0.6	00 2
Hungary	0.6	(0.4)	4.7	(0.9)	123	(1,0)	23.8	(1.2)	310	T(1.39	21.6	(1.1)	5.8	(0.7)	0.3	(0.1
tecland	1.1	(0.2)	42	(0.4)	11.5	(0.7)	22.2	(0.8)	30.6	(0.5)	21.9	(0.8)	7.5	(0.5)	1.0	60.
Iroland	1.5	93.40	3.9	(0.4)	11.5	60.75	23.3	(1.0)	30.6	(0.9)	21.9	(0.0)	6.3	(0.0)	0.7	60.0
			8.0		14.7											
Italy	3.9	(0.7)		(0.7)	14.7	(0.6)	22.5	[1 0)	25.5	(0.9)	15.1	(0.7)	6.4	(0.5)	1.0	(0)
	1.4	(0.2)	.52	(0.3)		(0.5)	24 0	(0.5)	28.9	(0.6)	20.2	40.5)	5.4	(0.3)	1.9	40.
Isban	1.3	(0.4)	3.4	(0-5)	8.9	(0.7)	18.0	(0.6)	28.0	(0.9)	27-0	(0.5)	11.5	(0.7)		40-
Korea	0.2	(0.2)		(0.3)		(0.6)	15.4	(1.0)	33.0	(1.2)		(1.4)		(1.0)	1.0	90.
tusembourg	3.1	(0.3)	7.3	(0.4)	15.7	(0.6)	240	(0.7)	27.0	(0.6)	17.3	(0.6)	5.2	(0.4)	0.5	(0.
Mexico	3.2	(0.3)	11.4	(0.5)		(0.6)		(0.6)	21.2	40.6)		(0.4)	0.4	(0.1)		(0.
Netherlands	0.1	(0.1)	1.8	(0.3)	12.5	[1.4]	24.7	(1.5)	27.6	(1.2)	23.5	[1.7]	9.1	(1.0)	0.7	(0.
New Zealand	0.9	(0.2)	3.2	(0.4)	102	(0.6)	19.3	(0.0)	25.8	(0.8)	24.8	(0.9)	12.9	(0.5)	2.9	(0)
Norway	0.5	(0.1)	3.4	(0.49	11.0	[0.7]	23.6	(0.8)	30.9	(0.99	22.1	(1.2)	7.6	(0.5)	0.8	£0.
Poland	0.6	(0.1)	3.1	(0.3)	113	(0.7)	24.5	(17.3)	310	(1.0)	223	(0.1)	6.5	(0.5)	0.7	(0.
Fortugal	0.6	(0.1)	4.0	.03:40	13.0	(7.0)	26.4	(1-1)	31.6	(1.1)	19.6	(0.9)	4.6	(0.5)	0.2	(0
Slovak Republic	0.8	(0.3)	5.6	(0.6)	15.9	(0.8)	26.1	(1.0)	28.5	(1.1)	16.7	(0.8)	4.2	(0.5)	0.3	(0)
Slovenia	0.8	(0.1)	5.2	(0.3)	15.2	(0.5)	25.6	(0.7)	29.2	(0.9)	19.3	(8.0)	4.3	(0.5)	0.3	(0)
Spain	1.2	(0.2)	4.7	(0.4)	13.6	(0.6)	26.8	(0.8)	32.6	(1.0)	17.7	(0.7)	3.2	40.3)	0.2	(0)
Sweden	1.5	(0.3)	4.3	(0.4)	11.7	(0.7)	23.5	(2.0)	29.8	(1.0)	20.3	(0.9)	2.7	(0.0)	1.3	00
Switzerland	0.7	(0.2)	4.1	(0.4)	12.1	(0.6)	22.7	(0.7)	29.7	(0.8)	22.6	(0,5)	7.4	(0.7)	0.7	(0)
Turkey	0.8	(02-2)	5.6	(0.6)	18.1	(3.49)	32.2	(3.2)	291	(1.1)	12.4	(1.1)	1.6	(0.4)	0.0	60
United Kingdom	1,0	69-25	41	(0.4)	13.4	(0.4)	24.9	(0.7)	28.8	(0.8)	19.8	60,89	7.0	(0.5)	10	60
United States	0.6	40.13	40	(0.4)	13.1	40-80	24-4	10.99	27.6	45.00	20.6	80.50	8.4	(0.0)	1.5	00
OECD total	1:1	49-11	48.	03.00	13-8	00.54	24.6	(0.31	77.9	(0.3)	19.5	IR(3)	7.00	10-21	1.25	-10
OECD average	9:1	(0.0)	4.6	(0.1)	1591	(0.1)	24.0-	(8.2)	28.9	(0.2)	20.7	(82)	6.5	(0.3)	0.8	10
Albania	113	(0.9)	18.7	(1.3)	26.6	(1.2)	25.6	(1:3)	14.4	(1.2)	3.1	(0.5)	0.2	(0.1)	0.0	
Argentina	10.8	(1.1)	11.8	(1.3)	25.0	(1.3)	25.4	(1.2)	16.0	(1.0)	6.0	(08)	0.9	(0.2)	0.1	(0.
Azerhaijan	9.7	(1.1)	26.1	(2.1)	36.9	(1.2)	21.5	(12)	5.3	(0.5)	0.5	(0.2)	0.0	(0.0)	0.0	
(trazil	5.0	(0.4)	160	(0.7)	28.6	(0.0)	27.1	(0.8)	15.9	10.19	6.1	(0.5)	1.2	(0.2)	0.1	(0
Bulgaria	8.0	(11)	12.9	(1.4)	20.1	0.49	23.4	(1-1)	21.8	D-9	11.0	(1.1)	2.6	(0.5)	0.2	(0)
Colembia	4.2	(0.7)	13.9	(3.0)	29.0	(1.2)	30.6	(1.1)	171	[7.09	4.6	(0.5)	0.5	(0.2)	0.0	(0)
Croatia	1.0	(0.2)	5.0	(0.4)	16.5	0.0	27.4	(1-0)	30.6	(1.2)	164	(1.0)	3.1	(0.4)	0.1	(0)
Dubai (UAE)	3.7	(0.2)	94	(0.5)	17.9	(0.5)	25.4	(0.7)	23.5	40.60	148	(0.7)	4.8	(0.5)	0.5	(0.
Hong Kong-China	0.2	(0.1)	1.5	00,30	66	(0.6)	16.1	40.81	314	40.50	31.8	(0.9)	11.2	60.75	1.2	60.
Indoposis	1.7	(0.4)	14.1	(1.3)	37.6	[16]	343	0.4	11.2	(1.3)	1.0	(0.3)	0.0	2	0.0	- Con-
tordan	69	(0.4)	13.6	(0.8)	27.6	(1.0)	31.8	(1.0)	16.5	41.CD	3.4	(0.4)	0.2	(0.1)	0.0	
Kazakhstan	2.5	(0.7)	20.4	(3.4h	30.7	(0.9)	24.1	(0.9)	13.1	10.99	3.7	(0.5)	0.4	(0.1)	0.0	
Kengyastan	29.8	(1.2)	29.7	(0.9)	23.6	(0.9)	11.5	(0.8)	42	10.69	1.0	(0.3)	0.1	(0.1)	0.0	
Latvia	0.4	03-21	33	(0.6)	13.9	(1.6)	28-8	(3.5)	33.5	[1-2)	17.2	(0.0)	2.9	(0.4)	0.1	
Liechtenstein	6.0	C	2.8	(1 2)	12.8	(7.6)	24.0	(2.8)	31.1	(2.8)	24.6	(2.3)	4.2	(1.4)	0.4	
Lithuania	0.9	(0.3)	5.5	(0.6)	17.9	(0.9)	30.0	(1,0)	28.6	(0.5)	14.1	(0.8)	2.8	40.40	0.1	10
Macag-China	0.3	(0.1)	2.6	10.31	12.0	(0.4)	30.6	(0.6)	36.6	(0.7)	16.9	(0.5)	2.8	(0.2)	0.1	(0)
Montenegro	5.9	(0.5)	15.8	(0.5)	77.8	(0.6)	28.0	40.50	16.8	(0.5)	5.0	(0.5)	0.6	(0.2)	0.0	in
Fanama	133	(1.8)	23.1	(1.8)	70.9	(1.2)	207	(1.4)	101	(3.4)	3.0	(0.7)	0.5	(0.2)	0.0	
Pena	14.1	40.00	22.0	(1.0)	28.9	(1.1)	20.1	(0.9)	10.1	(0.9)	2.6	10.55	0.5	(0.2)	0.0	60
Ontre	17.0	(0.9)	22.4	(0.5)	23.2	(0.4)	153	(0.4)	1111	(0.5)	5.4	(0.3)	1.5	(0.2)	0.2	(0)
Romonia	4.1	(0.3)	12.7		23.6	(1.2)	31.6	(0.49	21.2		6.1	(0.3)	0.7		0.0	(0),
				(1.1)						(1.3)				(0.2)		
Russian Federation	1.6	(0.3)	6.8	(0.6)	19,0	(0.8)	31.6	(10)	268	(0.9)	11.1	(0.7)	2.8	(0.4)	0.3	(0.
Serbia	2.0	(3.4)	8.8	(0.7)	22-1	(0.5)	33.2	(1.0)	25.3	(1-0)	7.9	(0-6)	8.0	(0.2)	8.0	(0-
Shanghai-China	0.1	(0.0)	0.5	(0.1)	3.4	(0.5)	13.3	(0.5)	28.5	(12)	34.7	(1.C)	17.0	(1.0)	2.4	(0)
Singapore	0.4	(0.1)	2.7	(0.3)	9.3	(0.5)	18.5	(3 C)	27.6	(0.8)	25.7	(0.7)	13.1	(D:5)	26	(0)
Chinese Taipei	0.7	(0.2)	3.5	(0.4)	11.4	(0.40)	246	(0.0)	33.5	(1.1)	210	(10)	48	(0 8)	0.4	(0.
Thailand	1.2	(0.3)	9.9	(0.0)	31.7	(1.1)	36.5	[1.2]	16.7	(0.8)	3.3	10.59	0.3	(0.2)	0.0	
Trinidad and Tobago	9.6	(0.5)	14.2	(0.4)	27.0	(0.8)	25 0	(0.9)	19,0	(0.9)	89	(0.5)	2.1	(0.3)	0.2	40.
Tunisia	5.5	(0.5)	15.0	(0.8)	29.6	(8.1)	31.5	(1.2)	15.1	(1-0)	3.1	(0.5)	0.2	(0.1)	0.0	
Upopory	5.5	(0.6)	12-5	(0.7)	23-9	(0.7)	28.0	(0.7)	20.3	60.75	8.1	(0.5)	17	(0.3)	0.1	10

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[Part 1/2]

_	Table 1.2.2	Perce	ntage	of stud	ients a	rt each	profi	ciency	level o	n the	readin	g scal	e, by g	ender			
Т								Box	rs – Profi	ciency le	vels						
		dess the	tevel 16 n 262.64 points)	(from 2) less than	d 16 62,04 to 6334,75 points)	(from 3) less than score	407,47	(from 0 less tha	el 2 87.47 to a 488.18 points)	from 4 less than	98.18 to 552.89	(from 5 less tha	rel 4 52,89 to a 625,61 points)	(from 6 less tha	rel 5 25.61 to n 690.32 points)	Les (above score	69B32
		%	3.2	5	3.2	5	S.L.	5	S.L.	5	S.L.	%	S.L.	%	S.L.	%	S.L.
Q	Australia	1.5	(0.2)	4.9	(0.5)	13.2	(0.4)	22.5	(0.8)	27.4	(0.40)	20.6	(0.9)	6.3	(0.6)	1.6	(0.3)
×	Austria	3.1	(0.6)	10.8	(1.2)	21.3	(1.4)	25.1	(1.3)	23.2	(1.2)	13.7	(1.3)	2.7	(0.5)	0.1	(0.1)
-	Belgium	1.7	(0.3)	6.2	(0.7)	13.7	(0.6)	22.0	(0.5)	24.7	(1.0)	22.4	(1.0)	86	(0.7)	0.8	(0.3)
	Canada	0.6	(0.1)	3.0	(0.3)	10.8	(1.2)	22.9 32.1	(0.8)	29.7	(0.9)	23.5	(0.7)	8.3	(0.5)	10	(0.0)
	Czech Republic	14	(0.4)	7.7	(0.5)	21.7	(1.6)	29.9	(1.7)	24.4	(1.5)	12.2	(0.0)	2.6	(0.4)	0.2	(0.0)
	Deamark	0.6	60.75	4.3	(0.5)	14.1	(1.1)	29.7	(1.3)	31.6	(1.5)	17.0	(1.4)	3.0	40.6)	0.7	(0.1)
	Estonia	0.6	(0.3)	3.7	(0.6)	14.6	(1.3)	30.3	(1.5)	32.0	(1.4)	15.4	(1.0)	3.1	(0.6)	0.2	(0.1)
	finland	0.3	(0.1)	2.5	(0.4)	101	(0.7)	22.7	(0.1)	32.3	(1.3)	23.9	(1.2)	7.5	(0.6)	0.6	(0.2)
	France	3.4	(0.7)	8.1	(0.9)	14.1	(1.2)	23.3	(1.4)	25.4	(1.5)	18.6	(1.3)	6.3	(0.6)	0.7	(0.3)
	Germany	1,3	(0.4)	6.3	(0.7)	16.4	(1.1)	24.3	(1.3)	26.5	(1.4)	18.8	(1.3)	4.1	(0.5)	0.3	(0.2)
	Hungary	2.4	(0.4)	5.6	(1.2)	16.1	(1.4)	27.5	(1.2)	29.7	(1.4)	17.3	(1.4)	3.2	(0.7)	0.2	(0.1)
	Icciand	1.8	42.10	5.0	(0.6)	155	40.90	24.6	(1.1)	28.2	(1.1)	18.0	(1.1)	5.1	(0.7)	0.4	40.31
	Iroland	2.5	10.60	57	(0.7)	15.0	(7,3)	25.0	(1.6)	29.5	(1.3)	17.8	(1.6)	4.1	(0.7)	0.4	00,25
	tsead	6.2	(1.1)	10.8	(1.6)	17.0	(1.0)	22.9	(1.1)	21.6	(1.0)	15.1	(140)	5.5	(8.0)	0.8	(0.2)
	Italy	2,3	(0.4)	7.7	(0.5)	18.9	(0.7)	25.9	(0,8)	254	(0.7)	15.9	(0,6)	3.6	(0.3)	0,2	(0.1)
	Japan	2.0	(0.7)	50	(0.4)	119	£1 (0)	203	(1.2)	26.7	(1.5)	24 1	[1,40	89	(0.9)	12	(0.4)
	Korea Lusembourg	0.4	(0.3)	1.4	(0.5)	7.0	(1.0)	19.3	(1.5)	343	(1.6)	28.4	(1.9)	3.5	(1.1)	07	(0.2)
	Mexico	44	(0.5)	14.2	(0.7)	27.6	(0.7)	31.5	(0.75	17.8	40.70	42	(0.6)	03	60.11	0.0	(D, D)
	Netherlands	0.1	(0.1)	2.7	(00,5)	15-1	(1,7)	26.5	(1.6)	26.9	(1.5)	20.9	(1.7)	7.3	(1.00	0.5	(0.2)
	New Zealand	17	(0.4)	5.1	(0.7)	13.9	(2.5)	21.3	(1.0)	25.7	(1,1)	20 6	(1.1)	10.1	(1.1)	1.6	(0.4)
	Norway	1.0	(0.3)	5.5	(0.6)	14.9	(3.5)	27.4	(1.2)	28.8	(1.1)	17.4	(1.1)	4.5	60.60	0.5	(0.2)
	Poland	1.2	(0.3)	5.4	(0.4)	16.1	(1.0)	26.3	(1.3)	27.9	(1.3)	16.9	(1.0)	4.0	(0.7)	0.3	(0.2)
	Portugal Skyak Republic	1.1	(0.2)	6.1	(0.7)	17.5	(1.2)	28.3	(0.1)	28.3	(1.4)	15.4	(1.2)	3.1	(0.5)	0.2	(0-1)
	Slovek Republic	1.1	(0.4)	8.9	(1.6)	22.0	(1.3)	27.3	40.50	23.4	(1.0)	14.0	(0.9)	1.9	(0.4)	0.1	(0.1)
	Spain	1.7	00.33	6.2	(0.5)	16.5	(0.6)	28.9	(U.5) (D.5)	300	(1.2)	14.2	(0.8)	2.6	10.33	0.1	(0.2)
	Sweden	2.3	00-45	6.5	(0.6)	15.4	(3-1)	25.8	(1.4)	27.8	(1-2)	16.3	(1,0)	5.3	(0.6)	0.7	00-21
	Switzerland	1.0	(0.2)	5.7	(0.6)	15.3	(0.9)	25.7	(1.0)	26.7	(1.0)	18.4	(0.17)	4.6	(0.6)	0.5	(0.2)
	Turkey	1.2	(0.3)	8.6	(0.5)	23.6	(1.4)	32.8	(1.6)	24.5	(1.5)	8.4	(1.1)	DLB	(0.5)	0.0	c
	United Kingdom	1.5	(0.3)	5.6	(0.6)	15.2	(0.0)	25.8	(1.1)	27.0	(1.1)	17.2	(1.1)	6.1	(0.0) (0.0)	0.9	(0.3)
	OECD total	1.7	(0.3)	6.6	(0.7)	16.7	30.45	25.0	(1.5)	25.8	(1.1)	19.0	(0.4)	5/4	(0.2)	0.9	(0.1)
	OCCD average	1.8	(0.1)	8.8	05.15	14.6	(0.29	26.8	10:21	27.0	(9.2)	168	19.29	4.8	(0.1)	85	10,00
č	Albania	17.5	(1.5)	24.4	(1.7)	27.2	(1,6)	19.7	0.0	9.7	(1.3)	1.5	(0.5)	0.0	(0.0)	0.0	с
Partners	Argentina	14.8	(1.5)	18.1	(1.9)	25.9	(1.6)	23.0	(1.3)	12.9	(1.2)	4.5	(0.8)	0.7	(0.2)	0.0	(0.1)
ē	Azerhaijan	12.7	(1.3)	29.7	(1.4)	35.1	(1.5)	17.8	(1.5)	4.3	(0.7)	0.4	(0.2)	0.0	(0.0)	0.0	c
	8mzil	7.1	(0.6)	19-5	(1.1)	29.9	(1.0)	24.2 21.8	(1-2)	13.2	(0.5)	5.1	(0.5)	0.9	(0.2)	01	(0.1)
	Bulgaria Colombia	12.4	(1.6)	16.9	(0.0)	30.1	0.7)	10.0	(2.1)	15.9	(1.6)	7.6	(0.1)	0.5	(0.5) (0.2)	0.1	(0.1) m (1
	Country	1.7	63.45	7.9	40.73	21.7	0.40	29.9	(1.5)	26.0	(1.6)	11.5	(0.4)	1.6	40.33	0.0	(0.1)
	Dubai (UAE)	0.5	(0.4)	13.6	10.51	20.8	(0.40	23.5	(1.0)	20.0	(1.3)	11.4	(1.1)	3.7	00.60	0.0	10.27
	Hong Kong-China	0.4	(0.2)	2.1	(0.5)	88	(1.0)	18.7	(1.2)	33.2	(1.4)	27.9	(1.4)	81	(0.9)	0.8	(0.3)
	Indonesia	2.8	(0.6)	195	(1.6)	43.2	(1.6)	27.2	(1.8)	6.9	(1.3)	0.4	(0.2)	0.0	c	0.0	c
	jordan	109	(1.1)	18.6	(1.2)	321	(1.5)	26.7	(1.7)	10.0	(1.1)	1.7	(0.4)	0.1	(0.1)	0.0	с
	Kazakhstan Kyrgyzstan	11.4	(0.9)	25.8	(1.3)	303 182	(1.1)	20-2 8-2	(1.1)	9.7	(0.5)	2.4	(0.4)	0.0	(0.4)	00	c
	Latvia	0.7	(0.3)	5.6	(0.0)	20.3	(1.6)	11.5	(1.49	29.0	(1.5)	11.1	(1.2)	1.5	(0.4)	00	(01)
	Lechtenstein	00	(0.3)	4.5	(1.9)	168	(3.6)	26.2	(4.5)	293	(3.2)	20.2	62.73	2.9	(1.4)	0.2	00.51
	Lithuania	1.6	(0.4)	9.0	(0.5)	24.8	(1.3)	32.7	(1.7)	22.8	(1.3)	8.1	(0.7)	0.9	(0.3)	0.0	(0.0)
	Macao-China	0.4	(0.1)	39	(0.5)	16-2	(0.6)	33,8	(0.5)	31.7	(0.8)	12.3	(0.7)	1.6	(0.5)	0.1	(0.1)
	Montenegro	9.4	(0.7)	29-6	(0.8)	31-3	(1-2)	23.9	(1-2)	11.6	(1.1)	2.8	(0.5)	0.3	(0.3)	0.0	c
	Fanama Froa	16.2	(2.4)	26 0	(2.3)	29.4	(2.4)	193	(2.1)	7.0	(1.2)	1.6	(0.6)	0.3	(0.2)	0.0	c
	Peru Outer	16-2	(1.1)	25.6	(7.3)	22.0	(1.4)	13.6	(1.2) (0.6)	7.8	(0.6)	2.1	(0.5)	12	(0.3)	0.2	(0.1)
	Romania	6.1	(1.1)	12.6	(1.6)	27.0	(1.4)	28.6	(3.50	16.3	(1.4)	4,0	40.60	0.3	(0.2)	0.0	(0.1)
	Russian Federation	2.6	(0.6)	10.0	(1-0)	23.8	(7.1)	32.7	(1-8)	22.0	(12)	7.3	(0.5)	1.5	(0.4)	0.2	(0.1)
	Serbia	3.2	(0.6)	124	(1.0)	27,0	(1-4)	31.5	(1.7)	19.6	(1-2)	5-6	(0.6)	0.5	(0.2)	0.0	00-00
	Shanghai-China	0.2	(0.1)	0.9	(0.3)	5.5	(0.8)	17.8	(1.2)	31.5	(1.5)	30.9	(1/9)	11.7	(0.9)	1,6	(0.3)
	Singapore	0.7	(0.2)	4.2	(2.4)	11.3	(0.7)	20.3	(0.9)	27.4	(1.0)	23.8	(0.9)	10.6	(0.7)	1.6	(0.4)
	Chinese Taipei Thailand	1.3	(0.3)	5,5 16,1	(1.3)	14.9	(1.0)	30.9	(1.3)	31.0 11-6	(1.4)	17.2	(1.2) (0.5)	0.1	(0.7)	0.2	(0.2)
	Trinidad and Tobago	143	(0.5)	18.3	(1.3)	22.8	(1-6)	22.4	(1.5)	15.5	(1.0)	59	(0.6)	0.1	(0.1)	6.0	(0.0)
	Tunisia	8.4	(0.6)	18,9	(1.1)	30.3	(1.1)	27.9	(1.2)	12.2	(1,2)	21	[0.6)	01	(0.1)	0.0	(0.0)
	Uragusy	6.6	(0.9)	16.4	(T.C)	26-2	(1.0)	25-1	(1.3)	16.4	(1.0)	60	(0.7)	1.1	(0.2)	0.0	(0.1)



								Gir	ls – Profi	ciency le	vels						
			Level 1b	Leve Oferen 2	il 16 62.04 to	tee	el 1a 34,73 to		el 2 87.47 to	Lev	el 3 80,181o		el 4 52.89 to	Lev		Les	.1.
		dess tha	m 262.04	less than	334,75	less that	n 407,47	less that	n 480.18	less the	n 552.89	less tha	n 625,61	(from 6) less than	698.32	above	69B32
		score	(striog	score	points)	score	points) S.L.	50000	points)	SCORE	points)	score	(thiog	score	points) S.L.	score	points) S.L.
0	Amteria	0.4	(0.1)	18	SE.	6.5	8L.	18.4	(0.8)	20.5	it m	27.4	(0.8)	110	(0.7)	7.6	(0.4)
2	Austria	0.9	(0.4)	5.6	(0.5)	13.8	(1.1)	23.1	(1.4)	28.7	(1.3)	21.1	(1.2)	63	(0.7)	0.6	(0.2)
۰	Belgium	0.6	(0.2)	3.2	(0.6)	10.0	(0.5)	18.5	(0.5)	27.1	(1.1)	27.6	(1.1)	116	(0.8)	1.4	(0.3)
	Canada	0.1	(0.0)	0.9	(0.2)	5.0	(0.4)	17.5	(0.7)	30.2	(0.8)	30.1	(8:0)	13.6	(0.6)	2.6	(0.3)
	Chile	0.7	(0.3)	5.2	(0.7)	18.9	(1.2)	34.4	(1.5)	25.7	(1.5)	10.6	(1.2)	1/5	(0.4)	0.0	(0.0)
	Czech Republic Denmark	0.2	(0.2)	2.0	(0.5)	93	(0.1)	22.9	(1.4)	30.0	(1.3)	23.3	(1.4)	7.2	(0.8) (0.8)	0.6	(0.2)
	Estoria	0.0	00.01	1.0	(0.4)	0.3	(0.6)	20.6	(1.5)	35.6	0.40	27.5	(1.2)	7.8	10.80	11	(0.4)
	finland	0.1	00.17	0.5	(0.2)	2.6	63,43	10.7	80.80	27.8	(1.1)	37.3	(1.1)	18.3	(1.0)	2.7	(0.4)
	France	1.3	(0.5)	3.3	(0.6)	9.6	(0.6)	19.0	(1.2)	28.9	(1.4)	25.9	(1.4)	10.6	(1.2)	1.5	(0.4)
	Germany	0.3	(0.2)	2.4	(0.4)	9.9	(0.5)	20.1	(1.0)	29.2	(1.3)	27.0	(1.1)	10.0	(0.9)	1.0	(0.3)
	Greece	0.5	(0.3)	2.6	(0.7)	10.1	(1.1)	23-9	(1.5)	32.4	(1.3)	22-8	(1.3)	6.7	(0.8)	1.0	(0.3)
	Hungary Iceland	0.2	(0.2)	2.8	(0.5)	7.6	(1,1)	21,9	(1.7)	32.5	(1.6)	25.7	(1.7)	78	(1.0)	0.5	(0.2)
	Ireland	0,6	(0.2)	2.1	(0.5)	8.6	80.83	21.4	(1.4)	31.6	(1.0)	26.2	(1,3)	8.6	(0.9)	1,0	(0.4)
	tead	1.5	10.43	5.2	(0.4)		40.25	22.1	0.6	29.2	(1.5)	20.9	(1.1)	7.3	(0.7)	1.2	40.33
	Italy	0.5	(0.1)	2.6	(0,3)	9.6	40.53	22.1	60.80	32.5	60.7)	24.8	10.79	7.2	00.51	0.6	(0,1)
	Japan	0.5	(0.3)	16	(0.4)	5.7	(0.7)	155	(1.2)	29.4	(1.3)	30.2	[1.39	14.2	(1.2)	2.7	(0.6)
	Korea	0.1	(0.1)	0.3	(0.1)	2.1	(0.5)	11.1	(1.3)	316	(1.7)	38.0	[1.9]	15.4	(1.4)	15	(0.3)
	Lusembourg	1.5	(0.3)	86	(0.7)	12.9	(1.1)	34.4	(1.1)	26.9	(1.1)	203	(1.0)	7.0	(0.4)	0.7	(0.3)
	Netherlands	0.0	(0.3)	0.9	(0.5)	9.8	(0.7)	23.0	(0.8)	28.3	(1-4)	26.2	(1.9)	10.8	(1-2)	1.0	(0.0)
	New Zealand	0.0	(0.1)	1.3	(0.4)	63	86	17.3	(1.0)	25.9	(1.1)	29.3	(1.0)	15.6	(1,0)	4.0	(0.7)
	Norway	0.1	(0.1)	1.3	60-30	7.0	98	19,6	(3.0)	33.1	IT-49	27.0	(1.6)	10.8	(1-2)	1.2	(0.3)
	Poland	0.1	(0.1)	0.9	(9.2)	6.5	(0.8)	20.7	(1.3)	34.1	(1.3)	27.6	(1.5)	9.1	(0.50	1.0	(0.2)
	Portugal	0.1	(0.1)	2.0	(0.5)	5.7	(1.6)	24.5	(1.3)	34.8	[1.2]	23.6	(1.2)	5.9	(0.6)	0.3	(0.2)
	Skovek Republic	0.4	(0.3)	2.3	(0.5)	9.8	(0.8)	25.7	(1,2)	33.6	(1.4)	21.8	(1.2)	5.9	40.80 40.90	0.4	(0.2)
	Seein	0.7	(0.1)	3.2	(0.5)	107	(0.7)	24.7	(1.1)	33.3	(1.2)	24.9	(0.9)	4.0	(0.3)	0.3	(0.1)
	Sweden	0.7	00.29	2.0	(0.5)	7.8	(0.7)	21.1	(8.7)	31.8	(1.3)	24.5	(1.3)	10.2	(0.5)	2.0	(0.4)
	Switzerland	0.3	(0.1)	2.4	(0.4)	8.7	(0.0)	19.5	(1.0)	30.5	(1.2)	27.0	(1.2)	10.2	(1.0)	1.0	(0.3)
	Turkey	0.3	(0.1)	2.4	(0.5)	12.3	(1.2)	31.5	(1.59	33.9	(1.5)	16.6	(1.5)	2.9	(0.0)	0.1	(0.1)
	United Kingdom	0.5	(0.2)	2,7	(02.4)	10,8	(0.8)	24 D	(10)	30.6	(1.0)	22.4	(1.1)	8.0	(0.7)	1.1	(0.3)
	OFCD total	0.2	(0.1)	2.5	(9.4)	10.9	(1.0)	23.1	(1.5)	29.4	(1.6)	22.2	(1.5)	9.5	(0.0)	2.1	(0.6)
	OCCD Sverage	9.5	(0.1) (0.0)	3,4	10,12 (0.15	10.8	(0.3)	22.9	#0.351 #0.21	29.9	(0.6)	22.9	10.51	8.5	(0.3)	12	(0.10
				_				-									
E	Albania	49	(0.7)	12.8	(1.3)	26.0	(1.7)	31.9	(1.5)	19.4	61.0	4.5	(0.9)	0.3	(0.2)	0.0	(0.0)
Partners	Argentina Azerhaijan	6.6	(1.0)	22.4	(1.1)	388	(1.6)	25.4	(1.5)	6.2	(1.1)	2.4	(1.1)	0.0	(0.4)	0.1	(0.1) c
4	Rearil	3.1	(1.0)	12.9	03.50	27.4	(1.2)	29.7	(1-0)	183	(1.1)	6.9	(0.2)	1.4	(0.0)	0.1	m 11
	Bulgaria	3.3	(0.7)	8.5	(1.3)	173	(1.5)	25.7	(1.4)	26.8	[1,6)	14.6	(0.7)	3.9	(0.7)	0.3	(0.2)
	Colombia	3.9	(03-6)	13.0	(1.1)	281	(7.3)	31.2	(1.3)	18.2	(1.29	5.1	(0.7)	0.6	40.20	0.0	10.01
	Croatia	0.2	(0.7)	1.6	(0.4)	10-6	(1.1)	24.6	(1-2)	35.7	(1.5)	22.0	(1.5)	4.9	(0.7)	0.2	(0.1)
	Dubai (UAE)	0.9	(0.2)	4.9	(0.4)	14.9	(0.7)	27.5	(1.2)	27.1	(1.3)	18.0	(0.6)	6.0	(0.7)	0.7	(0.2)
	Hong Kong-China Indonesia	0.0	(0.0)	0.8	(0.2)	4.1 32.1	(0.7)	13.1	(0.5)	155	(1.2)	362	(1.2)	14.7	(1.0)	1.7	(0.4)
	tordan	2.8	(0.5)	84	(8.8)	23.0	(1.3)	37.0	(1.2)	23.1	(1,5)	5.3	(0.7)	0.6	(0.1)	0.0	(0.0)
	Kazakhstan	3.6	(0.4)	14,9	(3-2)	31.2	(1.4)	28-1	(1-3)	16-6	[1-29	5.1	(0.7)	0.5	60-20	0.0	(0.0)
	Kyrgyzstan	19.1	(1.4)	30.1	(1.5)	29.0	(1.9)	147	(1.3)	5.5	(0.25)	1.4	(0.3)	0.2	(0.3)	0.0	c
	Latvia	0.0	(0.6)	1.1	(0.4)	7.6	(1.6)	25.9	(1.7)	37.9	(1.5)	23.1	(1.3)	4.2	(0.6)	0.1	(0.1)
	Liechtenstein	0.0	c	1.0	(1.0)	84	(2.4)	21.6	(3.2)	33.0	(4.3)	29.6	(4,0)	5.8	(2.3)	0.6	(0.8)
	Macao-China	0.2	(0.2)	13	(0.4)	10.8	(0.5)	27.2	(1.2)	34.5	(1.3)	20.3	(1.3)	4.7	(0.7)	0.3	(0.1)
	Montenegro	2-2	(0.5)	10.6	(1.2)	24.2	(1.3)	32.4	(1.7)	22.4	(1.1)	7.2	(0.7)	0.9	(0.3)	0.0	00.05
	Fanama	10.4	(1.7)	20.2	(2.1)	28.4	(7.59	22.1	(1.49	13.2	(1.9)	4.8	(1-0)	0.8	60.40	0.1	(0.1)
	Feru	12.0	(1.0)	19.6	(1.2)	28-2	(1.4)	24.3	(1.3)	12.4	(1.3)	3.1	(0.7)	0.4	(0.2)	0.0	00.00
	Qutier	10.7	(0.5)	19.2	(0.7)	24,5	(0.9)	23.3	(0.7)	14,0	(0.6)	6,3	(0.4)	1.8	(0.2)	0.2	(0.1)
	Romania	2.1	(0.5)	8.0	(0.9)	20.3	(1.6)	34.5	(1.8)	25.9	(1-2)	8-0	(1.0)	1.1	(0.3)	0.0	(0.0)
	Russian Federation	0.6	(0.2)	3.8	(0.6)	17.1	(7.0)	30.4	(1-4)	31.5	(12)	14.9	(1-0)	4.1	(0.7)	0.5	(0.2)
	Serbia Shanghai-China	0.7	(0.3)	6.2	(0.7)	17.1	(1-2)	35.0	(1.3)	30.8	(1.3)	101	(0.6)	22.3	(0.2)	0.0	(0.1)
	Singapore	0.1	(0.1)	1.3	(0.1)	7.3	40.60	16.7	(0.0)	27.6	(1.2)	27.7	11.09	15.6	(0.8)	1.7	(0.6)
	Chinese Taipei	0.1	(0.1)	1.5	(0.3)	7.9	(0.8)	22.2	(1.2)	36-2	(1.5)	24.9	(1.5)	6.5	(1.2)	0.6	(0.4)
	Theiland	0.4	(0.2)	5-2	(0.7)	27.6	(1.5)	41-4	(1-6)	20.7	(1-3)	4.3	(8.0)	0.4	(0.2)	0.0	(0-0)
	Trinidad and Tobago	5.0	(0.5)	10.3	(0.7)	19.2	(1.1)	27.6	(1.2)	22.4	(1.2)	119	(0.7)	3.4	(0.4)	03	(0.1)
	Tunisia	2.9	(0.5)	11.5	(1-0)	29.0	(1.6)	34.7	(1.7)	17.6	(1.3)	39	(0.6)	0.3	(0.2)	0.0	(0.0)
_	Urugusy	2.6	(0.4)	9.1	(0.5)	21.9	(0.9)	30.5	(1.2)	43.7	(7.40)	100	(0.7)	2.1	(0.4)	0.1	(0.1)



[Fart:1/1]
Table 1.2.3 Meen score, verietion end gender differences in student performence on the reeding scele

		All -	ude obs			-	-	ifferen	-							Prece	rede-					
		All 30	Stat	ndard intion	Re			ide	Diffe	etnor	,		16	uk.	25		7	eh.	91	wk		5th
			SD.		Mean		Mean		Score													
Amteria	Mean	5.E. (2.35	5.D.	S.E.	acore 4755	S.E.	531	(7.6)	-37	OLD.	361	5.1.	Score	O.D.	Score	5.E.	Score	(2.7)	Score	S.E.	Score	(3.5
Austria	470		100	(2.0)	449	(3.8)	490	(4.00	-41	(5.5)	299	75.25	334	05.13	399	44.30	545	(3.3)	596	(3.4)	625	64.5
Belgum	506	(2.3)	102	(1.7)	493	(3.4)	520	(2.59	-27	61.9	326	06.10	368	(4.3)	436	(3.8)	583	(2.2)	631	(2.7)	657	62.5
Canada	524	(1-5)	90	(0.9)	507	(1.8)	542	(1,7)	-34	(1.9)	368	(2.50	406	(2.7)	464	(1.50	588	(1-7)	637	(1.50	664	(2:
Chile	449	(3.1)	83	(1.7)	439	(3.9)	461	(3.6)	-22	(4.1)	310	(5.1)	342	(5.0)	393	(4.1)	506	(3.3)	556	(3-6)	584	65
Czrch Republic	478	(2.9)	92	(1.6)	456	(3.7)	504	(1.0)	-46	(4.1)	325	(4.6)	357	(4.9)	413	(4.2)	545	(3.3)	596	(3.2)	627	0.
Denmark	495	(2:1)	154	(1.2)	450	(2.5)	109	(2.5)	-29	(2.9)	350	(1.5)	353	(0.7)	440	(2.59)	554	(2.8)	599	(0.4)	624	12
Estoria	501	(2.6)	83	(1.2)	480	(2.5)	524	(2.8)	-64	(2.5)	359	(5.3)	352	(4.4)	446	(3.3)	559	(2.6)	605	(3,6)	633	64
finland	536	(2.3)	86	(1.0)	508	[2.6]	563	(2.4)	-55	(2.3)	382	(3.4)	419	(3.6)	481	(2.7)	597	(2.2)	642	(2.6)	666	(2.
France	496	(34)	106	(2.8)	475	(4.3)	515	(3.4)	-40	(3-7)	305	(8.2)	352	(7.0)	429	(4.7)	572	(4.0)	624	(3.8)	651	44
Germany	497	(2.7)	95	(1.40)	478	(3.6)	518	(2.9)	-40	(3.9)	333	(4.8)	367	(5.3)	432	(0.5)	567	(2.8)	615	(3.2)	640	43
Greece	483	(4.3)	95	(2.4)	459	(5.5)	506	(3.5)	-47	(4.3)	376	(7.8)	355	05-09	420	(6.3)	550	(3-1)	601	(3.7)	630	43
Hungary	494		90	(2.4)	475	(3.9)	513	[3.4]	-38	(4.0)	332	(7.4)	171	(4.5)	435	(4.3)	559	(3.6)	607	(3.5)	632	[4
tceland	500		76	(1.2)	478	(2.1)	522	(1.9)	-44	(2.8)	331	(6.5)	371	(4.1)	439	(2.9)	567	(2.0)	619	(2.6)	648	[3
Ireland	496		95	(2.2)	476	(4.2)	515	(3.1)	-39	(4.7)	330	(7.8)	373	(4.7)	435	(3.9)	562	(2.8)	611	(2,8)	638	(3
Israel	474		112	(2.7)	452	(5.2)	495	(3.4)	-42	(5.2)	277	(8.8)	322	(7.8)	401	(4.4)	554	(34)	611	(4.0)	643	(4
Italy	486	(1.6)	96	(L4)	464	(2.3)	510	(1.9)	-46	(2.8)	320	(3.7)	358	(2.6)	422	(2.3)	556	(1.7)	604	(1.7)	631	(2
(apan	520		100	(2.9)	501	(2.6)	540	(3.7)	-39	(5-8)	3.39	(9.5)	356	(7.1)	459	(4.5)	590	(3.0)	639	(3.6)	667	(4
Korea	539	(3.5)	104	(2.1)	523	(1.9)	492	(1.5)	-35	(5.9)	400	(7,6)	435	(3.9)	490	(2.4)	595	(3.4)	635	(3.0)	658	CS
Luxembourg	472	(7.0)	504	(1.25	453	(2.1)	492	(1.5)	-29	(23)	265	(3.4)	332	(3.5)	370	(2.4)	547 485	(1.7)	531	(2.0)	557	63.
Mexico Netherlands	508	(5.1)	89	(1.4)	496	(S.D.	521	(5.3)	-23	(2.4)	285	(4.7)	316	(5.0)	370	(5.1)	575	(5.4)	625	(4.6)	650	44
Netherlands New Zealand	508	(2.4)	103	(1.6)	499	(5.1)	521	(3.5)	-24	66.33	365	(5.89	383	(4.5)	452	(0.1)	595	(3.4)	649	(4.6)	678	65
Narway	503	(2.6)	91	(1.2)	400	(3.0)	527	(2.9)	-47	(2.9)	344	(4.5)	207	(4.0)	443	0.0	568	(2.9)	619	(3.9)	647	14
Foland	500		179	(1,3)	475	00	525	(2.9)	-50	(2.5)	346	(5.6)	382	64.25	441	D.49	565	(3.7)	613	6.31	640	41
Portugal	489	(3.1)	87	(2.6)	470	(3.5)	508	12.50	-15	0.6	376	14.81	171	04.95	412	(4.4)	551	(3.4)	599	(3.5)	624	13
Slovak Republic	477	(2.5)	90	(1.9)	450	(3.9)	503	(2.80	-51	(3.5)	324	(6.1)	158	(5.25	416	(0.1)	5.63	42.75	594	(3.2)	621	14
Starnia	493	(1.0)	91	10.9	456	0.6	511	(1.4)	22.	(2.3)	326	(2.9)	359	(2:3)	421	(1.9)	550	(1-7)	598	(2.9)	623	B
Spain	491	(2.0)	35	n.n	467	(2.7)	496	(2.2)	.29	0.00	326	6.21	364	8.9	426	(3.3)	543	(2.49)	588	(2.0)	613	12
Sweden	497	(2.9)	99	0.51	475		531	(3.1)	-66	(2.7)	326	(5.3)	368	(5.5)	437	(3.3)	565	(3.2)	620	(3.7)	651	В
Switzerland	501	(24)	93	(1.4)	481	(2.9)	529	(2.7)	-39	(2.5)	337	64.13	174	65.00	417	(3.6)	569	(3.0)	617	(3.3)	645	60
Turkey	464	(3.5)	82	(1.7)	443	(3.7)	426	(6.1)	-43	(1.7)	325	(5.1)	356	(4.3)	409	(3.8)	522	(4.5)	569	(5.2)	526	(5
United Kingdom	424	(2.3)	95	(1-2)	481	(3.5)	507	(2.5)	-25	(4.5)	334	(4.1)	370	(3.1)	430	(2.8)	561	(3.2)	616	(2.6)	6-56	¢s.
United States	500	(3.7)	97	(1.6)	488	(4.2)	513	(3.8)	-25	(3.4)	339	(4.2)	372	(3.9)	433	(4.0)	569	(4.6)	625	(5.0)	656	(5
OECD total	1492	(1.2)	95	02-60	475	(14)	508	(2.2)	-33	(1.2)	326	17L89	363	(1.5)	426	(1.4)	561	(1.4)	615	(1.5)	645	48
OfCD merage	493	(0.5)	93	(0.3)	474	(0.6)	513	10.5%	-39	(0.61	332	11.00	369	(0.8)	432	(9.7)	560	(0.5)	610	(0.6)	637	_00
Albania	385	64.00	100	(1.5)	355	(5.1)	417	(1.5)	.67	8.40	212	05.55	254	15.60	319	65 50	458	(4.8)	509	(4.50	538	C
Argentina	195	(4.6)	105	03.40	379	(5.1)	415	(4.9)	-37	0.0	200	FT1.30		45.31		45.80	473	06.39	535	(7.1)	566	0
Azerbarian	362		76	(1.8)	350	(3.7)	374	(3.3)	-24	62.49	235		263		311	64.33	413	(4,0)	458	14-40	485	0
Senzil	412	12.70	94	(1.5)	997	12.53	425	(2.8)	-29	0.71	262	0.0		(3-2)		(2.7)	474	(3.9)	537	(4.2)	572	0
Bulgaria	429	(6.7)	113	(2.5)	600	(7.39	161	65-89	-61	(6.7)	234		276		351	48.50	512	(6.5)	572	(7.3)	603	0
Colombia	413	(3.7)	87	(1.9)	408	(4.5)	418	04.09	-9	0.8	269	06.40		15,21		(4.4)	473	(3.9)	524	44.1)	554	6
Creatia	476	(2.9)	88	(1-6)	452	(3.4)	503	(3.7)	-51	(4.6)	327	04.50	359	0.6	416	(4.5)	539	(3.1)	586	(3.5)	611	6
Dubai (UAE)	459	(1.1)	107	02:91	435		485	(1.5)	-51	(2.3)	277	3.49		0.8	386	(2.4)	536	(2.4)	596	(2-7)	628	
Hong Kong China	533		84	(1.7)	518	(3.3)	550	(2.8)	-33	(9.4)	389		418	(4.5)	482	43.60	592	(2.5)	634	(2.9)	639	0
Indonesia	402	(3-7)	66	(2.0)	383	(3.8)	120	(3.9)	-37	(3.3)	291	(5.8)	315	(5-0)	357	(6.1)	447	(5.6)	487	(2-0)	510	c
jordan	405	(3:39	91	(2:0)	377	(4.7)	434	(4.1)	-57	(6.2)	243	(6.49	264	D.06	350	(4.1)	465	(1.5)	515	(7-99	542	0
Kazakhstan	390	[3-1]	91	(1.6)	369	(3-2)	412	0.49	-43	(2.7)	245	9.0		(3.8)		(3.1)	452	(4.2)	513	(5.0)	545	0
Kyrgyzstan	314	(3:2)	22	(2.1)	287	(38)	340	(3.2)	-53	(2.7)	155		190	(0.7)		(41)	377	(4.2)	441	(6.4)	483	¢
Latvia	484	(2 O)	80	(1.5)	460	(5.4)	507	(3.1)	-47	(3.2)	348	(6.3)		(4.2)		(3-8)	541	(3.3)	584	(3.2)	610	- 6
Liechtenstein	499	(2.8)	83	(3-5)	484	(4.5)	516	(4.5)	-32	(7.1)	355	(12.1)		(10.6)		(6.5)	560	(4.5)	600	(8.4)	626	(1)
Lithuania	468	(2.4)	86	(1.6)	439	(2.6)	498	(2-6)	-59	(2.6)	324	(4.5)		(4.1)		(3.3)	530	(3.1)	580	(3.4)	608	(
Macao-China	487	(0.9)	76	(0.8)	479	(13)	504	(1.2)	-34	(17)	357		358		437	(1.4)	540	(1.4)	582	(1.8)	608	0
Montenegro	108	(1.7)	93	(1.7)	382	(2.1)	434	(2.1)	-52	(2.6)	254	(4.2)	288	(3-8)		(2-6)	473	(2.4)	526	(2.7)	558	(-
Panama	371	(6.5)	99	(3.5)	354	(7.0)	357	(7.3)	-32	(6.7)	209	(12.0)		(100)		(7.4)	436	(7.7)	502	(9.3)	540	(10
Feru	370	(4.0)	98	(2.4)	359	(4-2)	381	(4.9)	-22	(4.7)	209	(5.0)		(3-9)	302	(4.3)	437	(5.2)	496	(6.4)	530	6
Qutar	372	(0.0)	115	(0.8)	347	(1.3)	197	(1.0)	-50	(1.9)	196		228		288	(1.4)	450	(1.4)	529	(2.1)	573	6
Romania	424	(6.1)	90	(2.3)	403	(4.6)	445	(4.3)	-43	(4.4)	271	(6.5)	304	(5.7)		(02,35)	488	(4.2)	537	(4 C)	564	6
Russian Federation	459	(3.3)	90	(2.0)	437	(2.6)	482	(1.4)	-45	(2.7)	310		344	(5.5)		(17.6)	519	(1.2)	572	(6.5)	407	0
Serbia	442	(2.4)	84	(1-5)	422	(3.3)	162	(2.5)	-39	(3.0)	299	(4.0)		(3.8)		(3.2)	501	(2.5)	547	(2-7)	572	0
	556		80	(1.7)	536	(3.0)	576	(2.3)	-40	(2.5)	417		450	(6.8)		(3.5)	613	(2.8)	654	(2.7)	679	¢
Shanghai-China	526	(1-1)	97	(1-0)	511	(1.7)	542	(1.5)	-31	(2.3)	357	34		(3.1)		(2-0)	597	(2-1)	648	(2-8)	676	0
Singapore													380	(3.59)	439	(3.2)	555	(2.59)	600	[4,6]	627	0
Singapore Chinese Taipei	495					(3.7)		(3.6)		(53)												
Singapore Chinese Taipei Thailand	421	(2.6)	72	(1.9)	400	(3.3)	438	(7.1)	-36	(3.8)	305	(4.9)	331	0.0	373	(3.2)	469	(2.6)	514	(6.0)	542	0
Singapore Chinese Taipei	421											(4.9)	331 265		373 339							0000

Note Values that are statistically significant are indicated in hold (see Armor A3) Start.tok *** http://dx.doc.org/10.1787/8983334334



									Proficie	ncy level							
		dess tha	Level 1b in 262.04	(from 2 less tha	el 16 62.04 to 8 334.75	(from 3 less than	ol 1a 14.75 to a 407.47	dirom 4	rel 2 07.47 to a 480,18	Crom 4	el 3 80.18 to n 552.89		52,89 to	less tha	25.61 to 0 698.32		vel 6 698.3
		score	points)	score	points)	score	points)	score	points)	score	points)	score	points)	score	points)	score	points)
		%	S.E.	%	S.E.	75	S.E.	%	S.E.	2.	5.E.	%	S.E.	%	S.T.	%	S.E.
Θ	Australia Austria	1.3	(0.1)	3.5	(0.7)	15.7	(0.5)	198	(0.6)	29.0	(0.4)	24.5	(0.6)	10.2	(0.5)	1.0	(0.3)
5	Belgium	1.7	10.31	4.3	(0.4)	10.9	40.60	18.6	(0.6)	25.5	40.89	24.7	(0.7)	11.2	(0.6)	2.5	10.3
	Canada	0.9	(0.1)	2.7	(0.2)	9.0	10.40	207	(0.6)	29.8	(0.6)	24.9	(0.5)	10.1	(0.4)	1.8	10.2
	Chile	2.7	(0.5)	8.6	(9.7)	22.2	(1.2)	31.6	(1.0)	23.5	(1.0)	9.3	(0.7)	19	(0.3)	0.1	(0.1
	Czech Republic	1.6	(0.4)	6.3	(9.7)	15.7	(0.7)	25.8	(0.9)	26.3	(0.8)	17.9	(1.0)	5.6	(0.5)	0.7	10.2
	Denmark	10	(0.2)	3.7	(9-4)	11.6	(0.6)	22.A	(0.7)	39.4	(1.10)	22.6	(1.2)	73	(0.6)	1.0	(0.2
	Estonia	0.6	(0.2)	3.3	(0.5)	11.4	(0.8)	23.5	(1.0)	310	(1.2)	21.7	[0.9]	7.5	(0.7)	0.9	(0.5
	Finland	0.8	(0.1)	2.5	(0.3)	7.8	(0.5)	17.2	(0.9)	27.0	(0.8)	27.4	(D 6)	14.2	(0.7)	3.1	(CL)
	France	3.0	(0.6)	5.5	(0.6)	12.5	(0.9)	21,8	(1.0)	263	(1.2)	20.9	(1.2)	8.5	(0.9)	1.4	(0.3
	Geerce	1.5	(0.3)	5.4 7.5	(0.4)	12.8	(0.8)	20.6	(0.1)	26.1	(0.5)	22.7	(1.0)	9.4	60.79	1,5	ED.2
	Hungary	2.1	(0.7)	47	(0.6)	168	(0.8)	21,0	(0.8)	27.6	(1.1)	23.6	(1.1)	90	(0.7)	12	(0)
	terland	2.0	(0.2)	4.5	49.33	11.2	(0.6)	19.6	(0.8)	28.1	10.59	22.1	(1.1)	10.3	(0.8)	2.3	(D:
	treland	1 22	(0.5)	3.7	40.40	10.6	(0.7)	22.6	10.96	90.2	(1.0)	22.6	0.0	77	40.60	0.9	m:
	toracl	6.2	(0.5)	8.8	60.69	15.2	(3.0)	21.8	(0.5)	243	(0.8)	16.3	(0.7)	6.2	40.5)	1.1	(0)
	ttaly	2.8	(0.3)	63	(0.3)	13.9	0.9	22.9	(0,5)	27.6	80.59	19,7	(0.5)	61	40.30	0.7	(0)
	Japan	1.9	(0.4)	3.2	(0.2)	80	(0.7)	16.2	(0.7)	25.4	[1 0]	27.0	(1.0)	141	(9.7)	42	60
	Korea	0.3	(0.1)	1.2	(0.3)	5.5	(0.7)	15.9	(1.0)	30.1	(0.1)	30.3	(1.2)	13.9	(1.1)	2.7	60.
	Luxembourg	4.7	(0.4)	7.6	(0.4)	15.6	(2.4)	22.4	(0:9)	24.9	(2.0)	17.1	(0.7)	6.7	(0.4)	1.1	10.
	Mexico Netherlands	0.2	(0.4)	10.3	(0.4)	22.8	(0.6)	30.7	(1.7)	23.0	(0.6)	7.6 26.7	(0.4)	1.2	(0.1)	0.1	(0)
	New Zealand	13	(0.1)	3.4	(0.3)	10.0	(0.5)	18.4	(1.7)	26.0	(1:3)	24.6	(0.6)	13.3	(0.7)	3,0	10.0
	Norway	1.0	10.20	3.5	(0.4)	10.2	10.63	20.5	(0.7)	29.6	00.80	23.4	ED 93	99	00.61	1.9	40.3
	Poland	1 15	(0.2)	4.3	(0.4)	11.9	10.79	22.7	(0.7)	28.6	40.59	21.0	10.60	8.3	(0.6)	1,8	60.7
	Portugal	1.2	(0.2)	4.0	(0.5)	12.8	10.69	25.7	(1.2)	30.5	(1.3)	19.3	(1.1)	5.3	(0.4)	0.5	40.0
	Slovak Republic	1 18	(0.4)	5.6	(0.6)	13.1	(0.7)	23.2	(0.1)	280	(1.2)	19.6	(0.5)	7.5	(0,6)	1.2	(D.
	Slovenia	18	(0.1)	5.5	(0.4)	12.8	(9.7)	23.3	(0.7)	28.6	(0.9)	213	(8 0)	6.2	(0.5)	0.4	(0)
	Spain	2.5	(0.3)	5.5	(0.4)	13.7	(0.6)	25.4	(0.7)	29.2	(0.7)	17.7	(0.6)	5.2	(0.3)	0.7	(0)
	Sweden	1.8	(0.3)	4.4	(0.5)	10.3	(0.7)	21.5	(8-4)	28-6	(3.E)	22.3	(1.1)	9.2	(0.9)	1.9	(0.
	Switzerland	1.0	(0.2)	4,3	(0.4)	110	(0.6)	21,7	(0.7)	29.1	40.80	23.8	(0.7)	86	(0.59	1.1	(0.
	Turkey	1.7	(0.5)	6.4	(3-6)	15.6	(0.5)	28.5	(1.1)	27.3	(1.0)	14.9	(1.1)	3.4	(0.6)	0.3	(D :
	United Kingdom United States	1.2	(0.3)	4.8	(0.4)	13.6	(0.6)	24.8	(0.5)	28.3	(0.9)	19.8	(0.9)	7.2	40.70	1.2	(D.)
	OFCD total	7.9	10.12	5.3	(0.2)	13.5	63.33	234	10.30	27.0	(0.3)	19.7	90,31	7.6	\$0.24	1,5	80.
	OLCD average	2.0	9815	5.0	40,13	12.6	(0.77	22.4	△ (0.2)	17.5	(0.21	90.9		61	40.11	14	(13.1
														,			
	Albania Araznina	14.8	(1.3)	15.0	(1-3)	246	(1.1)	23.6	(1.1)	147	(1.2)	6.6	(0.7) (0.8)	1.2	(0.2)	0.0	(0.0
	Azerbalian	16.9	(1.4)	22.5	(1.1)	27.6	(1,0)	20.7	0.0	93	40.73	26	(0.6)	0.4	(0.3)	0.0	60.6
	Stazil	87	(0.6)	16.5	(0.6)	25.3	(0.0)	26.9	(0.4)	154	80.77	6.9	(0.4)	1.9	(0.3)	0.2	40.1
	Bulgana	12.6	(1.5)	11.5	(0.5)	16.6	(1,1)	26.1	(1.2)	20,0	(1,3)	12.9	(1.2)	50	00,7)	1,2	40.5
	Colombia	6.3	(0.6)	15.5	(1.0)	29.3	(7.7)	28.4	0.0	15.6	82.90	43	[0.5]	0.6	(0.2)	0,0	10 0
	Croatia	1.7	(0.3)	5.1	(0.5)	13.2	(0.59	23.5	(0.0)	27.8	(1,3)	20.6	[1.0]	7.1	(0-6)	1.0	101
	Dubai (UAE)	5.3	(0.4)	9.9	(0.8)	17.1	(0.5)	23.1	[0.7]	22.3	(5.0)	15.5	(0.6)	6.0	(0:4)	8:0	(0.
	Hong Kong-China	0.8	(0.2)	2.3	(0.3)	7,4	(0.6)	17.5	(0.7)	28.3	(0.9)	29.5	(0.5)	12.2	(0.7)	20	(0.
	Indonesia	68	(0.9)	17.0	(1.2)	29.3	(1.3)	28.4	(1.1)	141	(1.1)	3.9	(0.7)	0.5	(0.2)	0.0	(0)
	Jordan Kazakhstan	10.8	(9.6)	15.3	(8.0)	26.0	(1.0)	254	(0.8)	15.2	(0.8)	52	(0.5)	1.0	(0.2)	0.2	10.
	Kazakhstan Kyrgyzstan	108	(0.8)	23.7	(0.8)	19.7	(0.9) (0.8)	23.0	(0.9)	149	(0.8)	1.7	(0.7)	0.4	(0.3)	0.2 D.1	(0)
	Labria	16	(0.3)	52	(0.4)	15.4	(1.0)	27.0	(0.0)	30.2	(1.7)	16.7	(1.1)	3.5	(0.2)	0.1	10
	Liechtenstein	0.5	(0.5)	3.9	(1.1)	2.8	(1.59	23.0	(2.9)	28.5	(3.0)	25.3	[2.5]	7.8	(1.5)	1.3	60
	Lithuania	2.1	(0.3)	6.7	(0.6)	16.0	(8.0)	25.1	(0.9)	26.7	(0.5)	16.9	(8.0)	5.6	(0.5)	0.9	(0.
	Macao-China	0.7	(01)	3.7	(0.3)	12.1	(0.5)	26.3	(0.6)	31.7	40.60	19.6	(0.5)	53	(0.3)	0.5	(0.
	Mostenegro	11-2	(0.7)	15.7	(1.0)	21.7	(0.7)	23-8	(0.7)	16-8	(0.7)	8.0	(0.5)	2.4	(0.2)	0.4	(0.
	Panama	19.4	(2.2)	21.3	(1,7)	242	(1.5)	18.4	(1,2)	10.6	(1,3)	4.7	(0.9)	1.1	(0.3)	0.2	(0.
	Peru	16.9	(1.1)	21.7	(1.2)	26.8	(1.2)	21.4	(1.1)	9.8	(0.0)	2.7	(0.5)	0.6	(0.2)	0.1	ED.
	Qutar	26.0	(0.5)	19.8	(0.5)	19.9	(0.6)	16.1	(0.6)	10.2	(0.4)	5.5	(0.2)	2.0	(0.2)	0.5	(0.
	Russian Federation	68	(0.4)	12.3	(0.7)	16.9	(1-1)	28.3	(1.1)	21.1	(1-2)	7.8	(0.8)	1.1 5.0	(0.5)	11	(0)
	Serbia	3.2	(0.4)	8.6	(0.6)	19.2	(1.4)	29.0	(1.2)	25-8	(0.0)	11.0	(0.8)	3-0	49.3)	0.1	(0)
	Shanghai-China	0.5	(0.1)	1.5	(0.6)	57	(0.4)	14.8	(1.2)	26.0	(0.9)	29.5	(1,1)	17.3	10.59	4.6	(0
	Singapore	0.9	(0.7)	3.1	10.40	9.0	(0.4)	17.7	(1.0)	25.8	(0.7)	26.8	(0.9)	11.5	40.60	1.0	60
	Chinese Taipei	2.0	(0.3)	5.0	(0.5)	12.4	(0.4)	22.2	(0.8)	27.3	(1.0)	21.2	(0.8)	8.5	(0.7)	1.6	60.
	Thailand	2.6	(0.5)	10-2	(0.9)	261	(1-1)	33-0	(8-1)	20.5	(1.1)	6.5	(0.7)	1-1	(0.3)	0.1	(0)
	Trinidad and Tobago	12.1	(0.6)	13.7	(0.7)	19.7	(0.9)	23.1	(0.7)	188	(0.6)	9.3	(0.5)	2.8	(0.5)	0.5	(0)
	Tunisia	9.9	(0.7)	17.7	(0.9)	27.4	(0.9)	25.1	(1.0)	143	(0.1)	4.7	(0.6)	0.9	(0.2)	0.1	(0).
	Uruguay	7.6	(0,6)	12.5	(0.7)	22.2	(0.0)	25.7	(0.8)	19.9	(0.0)	9.2	(0.6)	2.4	(0.3)	0.3	(0.3



[Part 1/2]
Table 1.2.5 Percentege of students et eech proficiency level on the reading subscale access end retrieve, by gend

	Table 1.2.5	Percei	ntege (of stud	ients e	t eech	profici	ency lo	evel on	the re	eding	subsca	ie acce	ss end	retries	re, by	gende
								Ber	s – Profi	ciency le	vek						
		riess tha	Level 1b in 262.04 points)	(from 2 less tha	el 16 02.04 to n 334.75 points)	(from 3 less tha	el 1a 34.73 to n 407.47 points)	(from 4	rel 2 07.47 to a 480.15 points)	(from 4	el 3 80.18 to n 552.89 points)	(from 5 less tha	rel 4 52.89 to n 625.61 points)	less tha	25.61 to	(above	rel 6 698.32 points)
		%	S.E.	SCORE.	S.E.	NORC.	S.E.	Nonec No.	S.L.	NCORE.	S.L.	Note:	S.C.	SC COC	S.L.	NOTE:	S.E.
0	Australia	2.2	10.13	5.2	(82.49	12.4	90,77	22.0	(2.8)		40.89	21.0	40.89	8.2	60.69	1.4	10.33
g	Austria	3.8	10.61	10.5	(1.0)	18.2	(1.4)	23.6	(1.3)	22.4	(1.4)	15.4	(1.2)	5.5	(0.7)	0.7	(0.2)
٥	Belgium	26	10.41	5.5	(0.6)	12.9	40.81	201	(S (I)	24.8	40,15	22.6	(1.0)	97	(0.9)	1.9	10.49
	Canada	1.5	(0.2)	4.1	(3.4)	12.3	(0.6)	23.1	(0.5)	28.6	(1.0)	21.6	(0.7)	7.5	(0:5)	1.2	(0.2)
	Chile	4.0	(0.7)	10.4	(1.0)	24.0	(1.4)	29.6	(1.4)	21.3	(1.2)	8.6	(0.9)	1.6	(0.5)	0.2	(0.1)
	Czech Republic	2.5	(0.6)	9.0	(1.1)	19.9	[7-2]	28.0	(1.4)	23.7	(1.2)	13.2	(1.2)	3.2	(0.5)	0.4	(0.2)
	Denmark	16	(0.3)	4.5	(0.4)	14.3	(0.9)	24.7	(1,1)	29.0	(1.2)	19.8	(1.2)	53	(0.7)	0.6	(0.3)
	Estonia	10	(0.3)	4.5	(0.6)	15.6	(1.1)	25.9	(1.3)	29 6	(1.6)	17.8	(1.0)	5.2	(0.7)	0.4	(0.2)
	Finland France	1.2	(0.2)	4.1	(0.5)	11.6	(1.1)	22.6	(1.7)	28.0	(1.2)	21.5	(1.1)	89	(0.6)	1.7	(0.4)
	Germany	2.2	(0.8)	7.8	(1,1)	15.5	(1.0)	22.6	(1.4)	26.0	(1.5)	19.0	(1.4)	6.9 7.0	(0.9)	0.8	(0.2)
	Greece	5.0	(0.5)	10.2	(3.5)	19.5	(1.4)	26.6	(1.3)	23.5	(I-4)	11.9	(1.0)	3.2	(0.5)	0.8	(0.2)
	Huggary	1 30	(0.5)	5.4	(0.9)	13.6	0.0	22.2	(1.3)	26.5	0.49	20.3	(1.4)	7.0	(0.8)	0.9	(0.7)
	ictland	3.1	(0.5)	6.8	(0.7)	15.1	(1.2)	21.8	(1.4)	26.2	(1.2)	18.3	(1.6)	7.7	(1.00	1.1	(0.3)
	Ircland	35	00.79	5.1	40.71	13.8	0.0	24.9	(3.6)	29 4	(1.2)	18.4	(1.2)	4.3	(0.6)	0.5	(0.2)
	tseacl	10.0	(1.5)	11.7	60.59	16.8	(1.31	28.1	(1.2)	20.6	11 01	13.6	(1.0)	5.4	40-60	0.9	(0.3)
	Italy	4.3	(0.4)	8.8	(0.5)	17,1	(0.6)	242	(0.7)	247	(0.8)	15.9	(0.6)	4.5	(0.4)	0.5	(0.1)
	Japan	2.9	(02.65	4.5	[0.6]	103	(1.0)	18.0	(1.3)	24.6	0.49	24.6	(1.2)	12.0	(1-0)	3.2	(0.7)
	Korea	0.5	(02.3)	15	(0.5)	7.7	(0.1)	19.3	(1.5)	30.5	(1.5)	26.7	(1.5)	11.5	(1.2)	2.0	(0.5)
	Luxembourg	7.0	(0.5)	9.5	(0.8)	17.9	(1.49)	22.6	(1-2)	23.9	(1.2)	13.8	(0.9)	4.7	(0.5)	0.6	(0.2)
	Mexico	5.6	(0.5)	12.0	(0.5)	24.9	(0.8)	293	(3 (3)	20.4	(8,0)	67	(0.5)	1.1	(0.2)	0.1	(0.0)
	Netherlands	0.4	(0.2)	2.9	(0.6)	12-6	(1.2)	23-3	(1.5)	27.5	(1-6)	23.5	(1.5)	9.0	(1-1)	1.0	(0.3)
	New Zeatand	2.3	(0.40	5.2	(0.7)	13.5	(0.9)	20.6	0.0	25.4	(1.2)	21.0	{1.2)	103	(0.5)	1.7	(0.3)
	Noneay	1.8	(0.4)	5.3	(3.7)	14.1	10-5)	23.4	(1-1)	28.4	(1-2)	19.8	(1.3)	6.9	(0.7)	1.1	(0.3)
	Poland	2.6	£1.49	6.5	(9.7)	15.8	(3.3)	25,8	(1.2)	25.3	(1.1)	16.9	(0.9)	5.9	(0.6)	1,0	(0.3)
	Portugal	2.1	(0.4)	6.9	(0.9)	16.8	[1.09	26.8	(1.7)	27.4	(1.4)	15.9	[1.2]	4.0	(0.6)	0.2	(0.2)
	Slovak Republic	2.9	(0.6)	8.4	(0.0)	17.8	[1.3]	26.7	(1.2)	244	(1,3)	14.5	(L1)	4.5	(0.6)	0.7	(0.3)
	Slovenia	3.2	(0.3)	6.9	(0.7)	17.5	[1 0]	25.8	(1.0)	25 1	(1.2)	160	[1 0]	3.5	(0.6)	0.2	(D.2)
	Spain Sweden	3.0	(0.4)	6.6	(0.5)	13.9	(0.8)	26.5	(1.2)	263	(0.8)	19.0	(0.6)	5.6	(0.3)	1.0	(0.1) (0.3)
	Switzerland	1.5	(0.2)	5.6	(0.4)	140	(0.9)	23.9	(1.2)	27.9	(1.2)	20.0	(1.3)	5.6	(1.0)	0.6	(0.3)
	Darkey	3.4	(0.2)	A-2	(0.40	19.7	(1.2)	28.7	(1.5)	24.1	(1.5)	12.7	(1.3)	2.9	40.50	0.2	(0.1)
	United Kingdom	27	(0.4)	5.6	(0.6)	16.6	0.5	24.2	(1.1)	26.5	(1.3)	16.8	(1.1)	5.0	40.80	10	(0.1)
	United States	1.6	03.40	6.7	(0.7)	15.5	0.0	25.1	(1.09	26.8	(1.22	17.1	(1.1)	6.2	40.80	0.9	00.30
п	OECD total	2.8	(0.2)	7.0	10.23	15.9	(0.49)	54.6	0.0	25.5	10.49	27.5	10,35	62	(0.3)	1,0	93.79
ı	OtCD average	3.0	(0.31	631	(6:0)	15.7	(0.2):	24,9	19.75	25.8	(0.2):	17.5	10,27	60	(0.7)	09	(0.0)
5	Albania	22.2	(7.7)	22.2	(1.4)	24.0	(1.4)	18.5	(1.4)	9.9	(1.3)	2.9	(0.0)	0.2	(0.2)	0.0	c
Partners	Argentina	16.6	(1.4)	18.0	(1.2)	24.1	(1.7)	22.3	(1.6)	13.3	(1.5)	4.6	(1.0)	1.0	(0.4)	0.0	(0.1)
ã	Azerbaijan	205	(1.7)	24.8	(1.4)	26.7	(1.4)	17.9	(1.6)	7.7	(1.0)	2.0	(0.4)	03	(0.2)	0.0	(0.1)
	Brazil	12-1	(0.9)	19-1	(0.5)	25.7	(1-4)	21.9	(148	13.3	(0.7)	6.1	(0.6)	1.2	(0.4)	0.2	(0.1)
	Bulgana	18.5	(2.1)	13.8	(1.7)	16.0	(1.5)	18.5	(1.7)	16,4	(1.4)	10.4	(1.2)	3.4	(0.8)	0.9	(0.3)
	Colombia	21	[11]	15.5	(1.4)	29.8	0.9	27.4	(1.5)	15.3	(1.3)	4.2	(D 6)	0.7	(0.2)	0.0	(0.0)
	Creatia	2.7	(0.49	7.7	(0.7)	17.4	(1.1)	25.7	(0.9)	25.4	(7.5)	15.8	[7.0]	4.8	(0.5)	0.5	(0.2)
	Dubai (LIAE)	8.8	(0.7)	13.4	(1.1)	18.8	(0.8)	20.5	(1.0)	19.2	(0.9)	13.7	(0.0)	4.9	(0.5)	0.7	(0.2)
	Hong Kong-China	1.2	(0.3)	2.9	(0.5)	9.6	(0.8)	194	(1.1)	293	(1.5)	26.3	(1.3)	9.7	(0.9)	18	(CL4)
	Indonesia Jordan	94	(1.4)	18.8	(1.6)	26.5	(1.4)	21.8	(1.7)	96	(1.60	2 0 3 6	(0.5)	02	(01)	0.0	(0.0)
	Jordan Kazakhstan	15.3	(1.3)	21.7	(1.1)	25.0	(1.0)	20.1	(1.1)	12-1	(1.0)	4.6	(0.6)	1,1	(0.2)	0.2	(0.1)
		15-3	(1.3)	22.3	(1.4)	15.5	(7.2)	26.1	(0.9)	3.5	(0.5)	1.0	(0.3)	0.3	(0.3)	0.2	(0.0)
	Kyrgyzstan Latvia	2.6	(0.6)	8.5	(1.1)	20.1	(1-3)	79.7	(1.3)	25.1	(1.5)	12.0	(1.2)	2.1	(0.5)	0.2	(0.0)
	Liechtenstein	0.9	(0.9)	5.1	(7.59	118	(2.7)	26.0	C5-C9	27.8	44-m	22.1	[2:9]	54	(2.1)	0.9	(0.6)
	13haatta	8.5	(0.6)	10.4	(1.1)	21.1	(1.2)	27.3	(1.4)	22.2	(1.1)	11.6	(0.9)	3.1	00.60	0.4	(0.2)
	Macao-China	1.1	(0.2)	5.2	00.5)	15.6	10.81	28.5	(1.1)	28-7	(1-0)	16.5	(0.8)	4.0	(0.4)	0.4	(0.2)
	Mostenegro	16-1	(1-6)	19.4	(1.5)	23-7	(3-1)	21-2	(1.2)	12.5	(7.7)	5.2	(0.6)	1.5	(0.4)	0.3	(0.2)
	Parama	22.3	(2.8)	23.4	(2.1)	23.9	(1.7)	17.6	(2.0)	8.4	(1.4)	3.3	(0.4)	8.0	40.33	0.2	(0.1)
	Penu	18.6	(1.5)	23.5	(1.7)	26.6	(1.4)	20.1	(1-2)	8.2	(8.0)	2.3	(0.5)	0.5	(0.2)	0.1	(0.1)
	Quiar	350	(0.7)	20.5	(0.6)	17.6	(0.8)	12.0	(0.6)	7.8	(0.5)	4.9	(0.4)	1.7	(0.2)	0.5	(0.1)
	Romania	100	(1-5)	15-7	(1.4)	24.4	(1.3)	25.7	(1.4)	17.6	[1.6)	5.8	(0.7)	0.8	(0.3)	0.0	(0.0)
	Russian Federation	4.1	(0.7)	9.5	(7.1)	20.5	(1.5)	28.5	(1,3)	23.3	(1.3)	10.3	(8:0)	3.2	(U-5)	0.7	(0.2)
	Serbia	4.9	(0.4)	119	(7-0)	22.9	(1.3)	28.7	(9-8)	21.4	(1.2)	8.5	(1-0)	1.6	(0.4)	0.1	60 1)
	Shanghai China	0.8	(0.3)	2.1	(0.5)	80	(0.9)	18.4	(1.0)	27.1	(1.6)	26.5	(1,7)	14.0	(1.2)	3.1	(0.5)
	Singapore	1.5	(02.33	4.7	[0.6]	108	(0.9)	19.4	(1.2)	25.7	(0.9)	24,6	(1.1)	11.1	(0.7)	2.1	(0.5)
	Chinese Taipei	3.1	(0.5)	6.9	(0.7)	15.4	(1.0)	23.5	(1.4)	25.3	(1.1)	18.2	(1.0)	6.5	(8.0)	1.0	(0.3)
	Thailand	4-8	(0-9)	149	(1-3)	30-6	(1-6)	29.7	(1-6)	15.0	(13)	4-2	(0.7)	0.6	(0.3)	6.0	(0-0)
	Trinidad and Tobago	18-0	(0.9)	16.7	(1.0)	20.8	(1.5)	20.9	(1.2)	15.1	(0.9)	6.5	(0.6)	1.6	(0.3)	0.2	(0.1)
	Tunisia	13.5	(1.1)	19.6	(1.5)	26-9	(1.2)	22.8	(1.3)	12.5	(1.1)	3.8	(0.8)	0.8	(0.3)	0.1	(0.1)
	Unaguay	11.6	(7.0)	15,5	(1.1)	22.9	(1.5)	23.5	(1.0)	16.6	(0.9)	7.6	(0.9)	1.9	(0:3)	0.2	(0.1)



								Gir	b – Profi	ciency le	vels						
					el 16		d la		el 2	Les			rel 4	Lev			
		Sclow deep the	tevel 16	(from 2 less tha	52.04 to	(from 3	34.75 to		07.47 to	(from 4	50.15 to	(from 5	52.89 to	(from 6	25.61 to	Let	vel 6 : 698.32
		score	points)	SCORE	points)	SCORE	points)	500FC	points)	SCORE	points)	SCORE	poiets)	SCORE	points)	score	points)
		%	S.E.	%	5.5.	%	3.8	%	S.E.	5.	5.5.	%	3.8	%	s.t.	%	S.E.
8	Australia	0.5	(0.1)	1.8	(0.2)	2.1	(0.6)	21.5	(0.6)	30.3	(0.5)	27.9	(0.7)	12.1	(0.7)	2.5	(0.4)
ŏ	Austria Selgium	1.7	(0.5)	6.0	(0.5)	13.3	(1.4)	17.0	(1.5) (3.5)	26.5	(1.1)	27.0	{1.2} {1.0)	16.2	(0.9)	1.4	(0.4)
	Canada	0.3	(0.2)	1.3	(0.3)	5.7	(0.1)	18.4	(0.6)	31.0	80.70	28.1	(0.7)	12.8	(0.6)	2.4	02.33
	Chile	1.3	(0.4)	6.8	(0.9)	20.4	(1.5)	33.4	(1.4)	25.9	(1.2)	9.9	(0.9)	2.1	(0.4)	0.1	(0.1)
	Czech Republic	0.6	(0.2)	3.3	(02.6)	11.0	(0.59	23.3	(1.4)	29.2	(1.4)	23.2	(1.4)	8.3	(0.8)	1.2	(0.3)
	Denmark	0.4	(0.2)	2.5	(0.4)	8.9	_ (O.3)	20.7	(1,0)	31,8	(1.5)	25,4	(5.1)	9.4	(0.9)	14	(0.4)
	Extenia	0.2	(0.2)	2.1	(0.6)	6.8	(0.7)	210	(1.3)	32.5	(1.6)	26.0	(1.3)	100	(1.3)	1.5	(0.5)
	Finland France	1.6	(0.2)	1.0	(0.2)	3,9	(0.6)	70.3	(0.5)	25.9	(1.1)	33.0	(1.3)	19.5	(1.0)	4.6	(0.5) (0.5)
	Cormany	0.7	(0.4)	3.9	00.75	100	(1.0)	18.4	(1.2)	26.2	(1,3)	26.6	(1.4)	11.9	(1,0)	2.3	(0.5)
	Greece	1.6	(0.6)	4.8	(9.8)	12.7	(1.6)	24.2	(1.3)	30.5	(1.1)	19.3	(1.4)	6.0	40.60	0.9	(0.2)
	Hungary	13	(3.6)	2.9	(0.6)	81	(1.0)	19.7	(1.2)	25 6	(1.5)	26,8	(1.6)	11/1	(1.2)	1.4	(0.3)
	Iceland	8.0	(0.2)	2.2	(0.5)	2.4	(0.7)	17.4	(0.9)	29.9	(1.1)	25.8	(1.2)	12.9	(1.2)	3.5	(0.6)
	Ircland	0.2	(0.3)	2.2	(0.5)	7.3	(01.8)	20,3	(1.2)	31.0	(1.6)	26.9	(1.6)	10.1	(1.2)	1.4	(0.4)
	Israel Italy	1.2	(0.6)	5.9	(0.7)	13.7	(0.6)	22.6	(1.0)	27.8	(0.6)	19.0	(1.0)	7.0	(0.6) (0.4)	1.3	(0.4)
	Japan	1.0	(0.3)	18	10.40	5.5	(0.7)	14.3	(0.1)	26.3	(1.3)	29.7	0.4	16.2	(1.0)	52	(0.2)
	Korea	1 0.0	60.06	0.5	(0.2)	3.2	62.73	12.2	(1.1)	29.8	(1.3)	34.2	(1.6)	16.5	(1.5)	1.5	(02.7)
	Luxembourg	2.3	(0.4)	5.6	(0.7)	13.3	(0.7)	22.1	(1.1)	25.9	(1.1)	20.5	(0.0)	8.8	(0.6)	1.6	(0.3)
	Mexico	3.1	(0.4)	8.6	(0.5)	20.8	(0.6)	32.0	(0.7)	25.6	(0.7)	8.6	(0.4)	1.3	(0.2)	0.1	(0.0)
	Netherlands	0.1	(0.1)	1.4	(0.5)	7.5	(0.9)	19.4	(1.8)	27-2	(1-4)	29.9	(1-6)	12.6	(1-6)	1.8	(0.5)
	New Zealand	0.4	(0.2)	1.4	(0.3)	6.3	(0.7)	16.0	(1.2)	30.9	(1.1)	28.5	{1.2)	16.4	(1.1)	2.7	(0.6)
	Norway Poland	0.2	(0.2)	1.5	(0.3)	8.1	(0.6)	17.4	0.0	31.9	(1.1)	28.1	(1.5)	10.5	(0.5)	2.5	(0.6)
	Portugal	0.5	(0.1)	2.5	10.5	9.0	(0.8)	24.5	(1.7)	33.5	(1.5)	22.6	(1.2)	5.6	(0.81	0.7	(0.4)
	Slovak Republic	0.7	(0.3)	2.9	(0.5)	8.5	(0.5)	19.7	(1.4)	31.4	(1.5)	246	(1.3)	10.4	(1.0)	1.7	(0.5)
	Slovenia	0.3	(0.1)	2.2	(0.3)	8.0	(0.6)	20.7	(0.9)	32.3	(1.1)	26.9	[1.2]	9.0	(0.8)	0.6	(0.2)
	Spain	1.7	(0.3)	4.1	(0.4)	108	(0.7)	24.5	(0.1)	30.7	(1.0)	20.7	(0.5)	6.6	(0.6)	1.0	(0.2)
	Sweden Switzerland	0.7	(0.3)	2.1	(0.5)	6.5	(0.6)	18.4	(1.0)	31.1	(1.0)	25 6 27 8	(1.5)	12.7	(1-3)	2.9	(0.5)
	Turkey	1.0	(0.4)	1.7	(0.00	15.5	(1.1)	79.4	(1.5)	30.6	(1.4)	17.1	(1.4)	40	(1.1)	0.5	(0.4)
	United Kingdom	1 08	(0.71)	3.1	(0.5)	10.9	(2.5)	22.7	(1.1)	30.1	(1.3)	22.8	(1.4)	82	(0.8)	1.6	(0.3)
	United States	0.7	(0.2)	1.0	(0.4)	12.0	(0.5)	24.5	(1.3)	28.3	(1.3)	21.4	(1.2)	8.3	(0.5)	1.8	(0.5)
	OECD total	-0.7	(0.1)	1 3,5	(0.2)	11.0	(0.3)	22.5	(0.4)	285	(0.4)	- 22.4	(0.4)	9.1	(0.3)	1/9	(0.2)
	OECD average	0.9	(0.1)	3.1	(0:1)	95	CH	20.7	(0.25	29.3	(0.2)	24.4	19:21	10.2	(0.2)	19.	KID
7	Albania	1 7.0	(7.0)	13.3	(1.4)	25.2	(1.9)	28.4	0.0	19.7	(2.5)	5,8	(1.1)	0.5	(0.2)	ILO.	40 ED
Partners	Argentina	9.8	(7.1)	14.2	(7.3)	24.0	(7.6)	25.1	(1.4)	17.5	(1-2)	7.8	(0.9)	1.5	(0.4)	0.1	(0.1)
ā	Azerbaijan	13.1	(1.4)	20.1	(1.3)	28.5	(1.3)	23.6	(1.5)	11.0	(0.9)	3.2	(0.6)	0.5	(0.2)	0.0	(0.1)
	Brazil	5.8	(0.5)	143	(8.0)	25-1	(1.1)	27.6	(1.4)	17-3	(8.0)	7.6	(8.0)	2.1	(0.4)	0.3	(0.1)
	Bulgaria Colombia	63	(0.9)	9.1	(1.0)	28.9	(1.3)	21.8	(1.6)	24.0 15.8	(1.7)	15.6	(I 4)	66	(0.9)	0.1	(0.4)
	Creatia	0.6	(0.2)	2.1	(0.49	28 9 B.S	(3.0)	21.7	(1.4)	30.5	(1.0)	26D	[1.4]	9.6	(1.00	1.6	(0.4)
	Dubai (UAI)	1.7	(0.3)	6.2	(0.7)	15.3	(0.49	25.8	(1.3)	25.5	(1.2)	17.4	10.80	7.2	60.64	1.0	(0.2)
	Hong Kong-China	0.3	(0.2)	1.6	(0.3)	5.3	40.7)	15.3	(1.1)	27/2	(0.1)	33.0	(1.2)	15.1	(e a)	2.4	(0.5)
	Indonesia	4.2	(0.8)	129	(1,3)	26.7	(1.8)	313	(1.5)	18.4	(1.5)	5.7	(1.1)	0.7	(0.2)	0.1	(0.1)
	Jordan	5.8	(0.9)	11.7	(1.0)	25.5	(1.3)	29.1	(13)	19.4	(13)	6.9	(0.8)	1.3	(0.3)	0.2	(0.1)
	Kazakhstan	27.5	(0.8)	14.4	(1.3)	25.0	(1.5)	25.9	(1.1)	17-6	(1.0)	8.4 2.4	(0.5)	2.0	(0.4)	0.3 D 1	(0.1)
	Kyrgyzstan Latvia	0.6	(0.3)	2.0	(0.1)	10.8	(1.1)	25.0	(1.3)	35.1	(1-3)	21.3	(0.5)	47	(0.7)	0.4	(0.1)
	Liechtenstein	1 00	E	2.5	(1.5)	7.5	12.59	12.7	(3.20	29.2	(1.9)	289	(4.3)	10.4	(2.9)	1.5	(1.2)
	Lithustia	0.6	(0.2)	2.8	(0.4)	10.7	(0.5)	22.9	(1.5)	30.9	(1.3)	22.5	(1.1)	8.2	(0.7)	1.4	(0.3)
	Macao-China	0.4	(0.2)	2.0	(0.3)	85	(0.6)	24.1	(3-8)	34-9	(1.1)	22.9	(0.8)	6.6	(0.5)	0.6	(0.2)
	Montenegro	5.9	(0.9)	11-8	(0.8)	19.5	(0.9)	26-5	(1-1)	21.4	(1-0)	11.0	(1-0)	3.3	(0.4)	0.6	(0.3)
	Panama Prna	16.5	(2.1)	193	(2.4)	245	(2.3)	19,3	(1.9)	12.7	(1.9)	6.1	(1.2)	1.4	(0.5)	0.2	(0.2)
	Outer	15.1	(1.3)	19.9	(1.5)	26.9	(1.3)	22.7	(1.3)	11.5	(1.2)	6.2	(0.7)	0.7	(0.3)	0.0	(0.1)
	Romania	3.7	(0.7)	21	(1-2)	20.6	(1.4)	39.9	(1,5)	245	(1.4)	9.7	(1.1)	1.4	(0.3)	0.1	(0.1)
	Russian Federation	1.1	(0.3)	4.2	(0.6)	13-4	(1.1)	26-8	(1.2)	283	(1.1)	17.7	(1.1)	6-8	(0.7)	1.6	(0.4)
	Serbia	1.5	(0-4)	51	(0.6)	15.6	(1.0)	31.0	(1.3)	39.5	(1.5)	13.5	(1,2)	2.5	(0.5)	0.2	(0.2)
	Shanghai-China	0.2	(0-1)	0.9	(0.2)	3.5	(0.5)	11.3	(0.8)	25.2	(1.1)	32.4	(1.2)	20.6	(1.1)	61	(0.6)
	Singapore Chinese Taipei	0.4	(0.1)	1.9	(0.4)	7.2	(0.4)	15.8	(1.3)	25.8	(1.1)	29,0	(1.1)	16.D 10.1	(1.0)	4.D 2.2	(0.7)
	Theiland	0.9	(0.3)	66	(0.5)	22.6	(1.2)	35.6	(1.2)	26.7	(1.2)	8.7	(1.0)	1.4	(1:1)	0.1	(0.1)
	Trinidad and Tobago	6.2	43.75	10.7	(0.6)	18.6	(1.0)	25.3	(1-2)	22.5	(1.0)	12.0	00-73	3.9	(0.4)	0.8	(0-1)
	Tunisia	6.6	(0.7)	161	(1.0)	27.8	(1.2)	27.1	(1 1)	15.9	(1.2)	5.5	(0.8)	0.9	(0.3)	0.1	(0.1)
	Unaguay	4.1	(0.5)	10.3	(0.0)	21.5	(1.0)	27.5	(1.1)	22.8	(1.0)	10.6	(0.7)	2.5	(0.5)	0.3	(0.2)



[Part 1/1]
Mean score, variation and gender differences in student performance on the reading subscale acces.
Table 16. and retrieve.

			All in	adents			Ge	nder d	Micren	ces							Perce	enfiles					
		Mean	score	Star	dard ution	Be	rys	G	irls	Diffe (B	rence - C)	5	ń	10	och	22	ith	72	th	90	ods.	92	Sth
		Mean		S.D.	S.E.	score	S.E.	score	S.E.	dif.	S.E.	Score	S.E.	Score		Score	S.E.	Score	S.E.	Score	S.E.	Score	
	ustralia		(2.4)	100	[1.3]		(2.59)	531	(2.7)	-36	(2.8)	337	(0.5)		(3.5)		(2.7)		[2.6)		(3.4)	665	
	ustria	477	(3.2)	109	(2.2)	459	(4.1)	494	(4.3)	-35	(5.8)	291	(5.9)	329	[4.50 (4.50)	402	(5.1)	557	(3.6)	616	(4.7)	616	(6
10	elgium anada	513	(2.4)	108	(1.8)	498	(1.5)		(3.0) (1.6)	-32	(5.6) (7.0)	323	(6.2)		(P.6)		(3.5)	583	(2.8)	634	(2.3)	673	(2
	hile	517 464		95	(1.0)	434	(1.5) (4.4)	454	(1.6)	-38	(2.0)	353	(5.2)	328	(5.7)	384	(2.0)	505	(2.0)	559	(2.3)	591	(2
	zech Republic	479	(3-2)	99	(1.7)	455	(4.4)	506	(3.5)	.52	14.60	309	(6.7)	349	(5.6)	412	(4.3)	551	(3.5)	605	0.7)	635	G
	enmark	502	(2.6)	94	(1.4)	486	ra m	518	(2.56)	-31	6.0	339	(5.6)		6.0	440	(3.5)	569	B.D	619	B 1)	648	(4
	donia	5033	(1.0)	91	(1.7)	484	(3.4)	523	(3.2)	-60	12.23	345	14.89	381	(4.0)	444	(3.6)	567	(3.6)	617	14.D)	647	(4
	inland	532	(2.7)	59	(1.2)	503	(3.1)	562	(2.8)	-59	(2.5)	357	(5.4)	401	(4.0)	470	(1.6)	602	(2.9)	653	(3.1)	682	ě
ź	rance	492	(3.8)	110	(3.2)	471	(4.7)	511	0.6	-40	(S-8)	298	(9.5)	347	(7:6)	422	(4.7)	571	(4.5)	625	(4.6)	656	¢
4	ermany	501	(3.5)	104	(2.2)	452	(4.5)	520	(3.5)	-38	(44)	318	(7.2)	358	(6.0)	429	(5.3)	578	(4.0)	630	(4.1)	658	6
	reece	468	(4.4)	103	(2.5)	445	[5-5]	490	(4.1)	-45	(4.9)	285	(9-5)	330	(8.5)	401	(6.3)	540	(4.0)	595	(3.8)	627	- 6
	ungary	501	(3.7)	104	(3.1)	484	(4.4)	519	(4.4)	-34	(4.6)		(LILD)		(5.6)	437	(5.43)	576	(4.0)	627	(6.0)	654	4
	reland bouler	507	(1.6)	105	(1.4)	481	(2.4)	532	(2.3)	-51	G-4)	319	0.3	363	(1.8)	439	(0.4) (0.1)	580	(2.7)	639	(0.0)	672	4
	reland	453	(6.1)	120	(2.4)	476	(6.3)	521	0.71	-44	(6.5)		(0.7)	372	(5.4)	355	(5.5)	548	(2.8)	610	(4.1)	643	9
	alv	482	(1.80	105	0.5	460	(0.2)	504	(2.7)	-44	(3.1)	295	6675		(3.7)	415	(2.6)	557	(1.7)	609	(1.7)	639	i
	nan	530	(3.8)	110	(3.2)	512	(6.1)	548	(4.0)	.36	(7.2)		(304)	386	(7.5)	464	(4.8)	605	(3.3)	658	(4.7)	691	ď
	orez		0.6	87	(2.3)	527		558	(3.98	32	(5.9)	393	07.80		16-30		(4.2)	600	0.6	650	(3.7)	677	è
	asembourg	471	(2.3)	115	(1-1)	449	(2.0)	493	(1.4)	-44	(2.5)	265	(5.7)	376	(3.2)	396	(2.9)	553	(2.3)	612	(2.3)	645	
	lesico	433	(2.1)	94	(1.4)	422	(2.4)	443	(2.2)	-21	(1.8)	271	(4.4)	311	(1.4)	373	(2.6)	420	(2.0)	548	(2.3)	577	1
h	etherlands	519	(5.1)	92	(1.4)	506	(5-0)	532	(5.4)	-26	(2.5)	364	(6.7)	326	(5.2)	453	(5-8)	558	(5.5)	634	(5.0)	661	(
h	iew Zealand	521	(2.4)	105	(1.7)	497	(3.5)	546	(2.7)	-49	(4.2)	338	(4.9)	381	(6.4)		(3.4)	597	(2.8)	650	(3.0)	680	(
	iorway	512	(2.8)	99	(1.6)	488	(3.5)	537	(3.0)	-49	(3.4)	340	(5.2)	362	(4.5)	449	(3.5)	580	(3.4)	634	(3-6)	665	-
	oland	500	(2.8)	101	(1.4)	475	(31)	525	(3.1)	-50	(2.9)	326	(5.0)		(0.0)	435	(3.6)	569	(2.9)	626	(3.5)	660	
	ortugal	485	(3.3)	93	(2.0)	469	(3.9)	206	(3.2)	-37	(30)	326	(6.2)	367	(5.5)	490	(4.3)	553	G 6)	602	(4.5)	631	-
	lovak Republic	491	(1.1)	103	(2.4)	463	(43)	518	(3-3)	-55	(43)	311	(5.5)	353	(7.0)	423	(4.0)	563	(3.4)	619	(3.7)	67.5	4
	kovenia pain	489	(2.1)	100	(0.8)	461	(1.7)	318	(1.5)	-30	(2.5)	303	(0.1)	355	(2.7)	426	(2.2)	561	(1.8)	610	(2.5)	63.5	3
	eden .	505	(2.9)	104	(1.5)	479	(3.3)	531	(3.2)	-50	(2.2)	321	(5.5)	368	(4.7)	440	(2.6)	577	(3.1)	631	(4.7)	664	7
	witzerland	505	(2.7)	97	(1.5)	487	G.31	524	(2.8)	-37	(2.9)	331	45.30	375	04,66	443	[0 29	576	(2.90	625	(3.8)	653	
	arkey	467	(6.11	95	(2.2)	451	64.53	484	14.69	-33	64.25	303	(7.90	343	(5.4)	407	F6.23	534	64-80	586	(4.6)	614	-
	Inited Kingdom	491	(2.5)	101	(1.6)	476	(3.3)	597	{2.99	-31	(4.6)	321	(4.6)	361	(4.4)	426	(0.3)	561	(2.8)	617	(3.5)	650	E
	nited States	492	(3.6)	59	(1.5)	480	(6.0)	504	(3.8)	-24	0.9	325	(5.0)	363	(4.6)	425	(4.0)	561	(6.6)	618	(4.4)	650	- (
	CCD total	451	(0.2)	101	(D 0)	475	[2.4)	507	(0.5)		(1.2)	515	(1.59	335	(1.7)		(1.4)	364	(1.3)	627	(6.5)	653	
C	ECD average	495	(0.5)	101	(0.3)	475	(0.7)	515	0.6	-40	(0.7)	918	.020	361	(0.5)	130	65.75	566	(0.6)	619	(0.6)	649	-
	Ibania	380	(4.7)	112	(2.1)	348	(5.9)	413	(6.4)	-65	(47)	162	(9.2)		(6.7)		(5.7)	661	(2-4)	520	(5.4)	550	
	rgentina	394	(4.8)	115	[3.1]	376	(5-2)	409	(5-2)	-33	(6.1)	193	(11.0)	242	(7.0)	321	(5.7)	474	[6.1)	539	(4-2)	574	
	zerbaljan	361	(4.5)	103	(2.4)	347	(4.5)	376	(4.6)	-29	(2.7)	189	(7.5)		(7.2)		(5.5)	432	(5.1)	493	(5.4)	528	
	nuril	407	(3-3)	107	[1-9]	391	(3.5)	420	(3.4)	-29	(2-2)	232	(4.6)	270	(4.2)	334	(3.3)	478	(4.6)	546	(5.5)	587	
	ulgaria	404	(8.3)	139	(3.3)	399 402	(9.3)	463	(4.0)	-64	(5.6)	183	(10.1)	239	(12.7)	339	(4.5)	530	(8.1)	599	(8.8)	637	
	olombia	401	0.10	101	(1.9)	402	(2.7)	106	(5.75	-52	(4.5) 66.86	318	0.0		(5.3)	477	(4.5)	563	0.9	522	(3.7)	646	
	ubri (UMI)	452	(1.4)	117	(1.3)	415	(3.79	487	(3.39	-32	(2.5)	258	(5.1)	339	0.7	380	(2.5)	543	(2.2)	606	(2.50)	639	
	long Kong-China	530	12:29	94	(1.9)	516	(4.1)	545	(3.21	.28	54.80	361	(5.9)		61.81		B 45	596	0.79	642	8.5	669	
	donesia	399	14.75	91	(2.4)	178	(4.9)	419	(5.0)	-61	(4.4)	248	(7.5)	281	(5.13	338	(5.6)	461	(5.3)	515	(7.0)	547	
þ	ırdan	394	(4.00	110	(2.7)	367	(5.7)	421	(5.0)	-55	(7.5)	195	(7.6)	249	(6-2)	328	(4.80	469	(4.4)	529	(4.7)	564	
×	szakhetan	397	(3.7)	110	(2.0)	375	(3.8)	420	(4.2)	-44	(3.1)	218	(6.2)	257	(4.8)	321	(4.3)	473	(4.9)	542	(6.7)	580	
	rgyzstan	299	(4.0)	122	(2.4)	266	(5.0)	330	(4,0)	-64	(3.8)	95	0.27		(5.7)		(4.9)	380	(5.2)	457	(7.0)	503	
	atvia.	476	(3.6)	92	(1.9)	452	(4.2)	501	(3.6)	-49	(3.7)	319	(6.7)	356	(5.4)	416	(4.7)	512	(3.8)	590	(4.0)	617	
	echterstein	508	(4.0)	93	(3-8)		(6.2)	525	(6.5)	-33	(9.5)	344	(21.4)		(10.2)		(9.8)	574	[6.5)	621	(7.7)	650	-
	thuanis	476	63.00	102	(1.5) (0.5)	416	(140)	508	(2.7)	-61	(1.8)	303	(2:10)	343	(2.5)	405	(4.1)	548	(3.1)	603	(3.7)	637	
	leczo-China	493	(1.2)	119	(0.9)	378	(1.6)	438	(3.4)	-31	(1.8)	206	(5.3)	253	(2.0)		(2.3)	490	(1.5)	558	(2.3)	630	
	iontenegro inama	363	(2.7)	119	(4.2)	348	(2.4)	378	(8.0)	-30	(7.6)	167	(12.5)		(12.7)		(7.9)	443	(8.6)		HOR	565	1
	- CLI	364	(4.3)	106	(2.7)	356	14.33	372	(5.5)	-16	(5.0)	104	(6.6)		(5.7)	293	(4.5)	416	(4.7)	497	15.50	514	٩
	Mar	354	(1.00	135	62-71	325	(7.6)	384	(1.2)	-58	(2.0)	140	0.5		0.5		(2.1)	445	(2.1)	536	12.60	550	
R	omania	423	(4.2)	102	(2.7)	402	(5.6)	442	(4.6)	-40	(5.1)	243	(8.6)	287	(6.5)	357	(6.1)	494	(4.8)	548	(4.2)	576	
8	ussian Federation	469	(3.9)	103	(2.0)	416	(4.2)	491	(4,1)	-45	(2.5)	257	0.75	339	(6.1)	403	44.75	536	(4.4)	599	(4.6)	636	
	erbia	449	(3-1)	95	(20)	490	(4-2)	469	(3-1)	-39	(4.1)	284	(64)	324	(5.6)	389	(3.6)	515	(3-2)	567	(3-9)	595	
	hanghai-China	549	(2.5)	26	(1.9)	531	(3.7)	368	(2.6)	-37	(2.2)	382	(5.5)		(5.3)	489	(1.5)	617	(3.0)	666	(3.4)	695	
	ngapon	526	(1.4)	163	(1.2)	510	(2.0)	543	(1.2)	-32	(2.8)	345	(5.3)	388	(3.4)	459	(2.5)	599	(16)	651	(3.5)	680	
ŝ	hinese Taipei	496	(2.6)	105	(1 8)	477	(4 C)	516	(3.8)	-39	(5.7)	312	(6-0)	358	(1.1)		(3.5)	570	(3.6)	625	(3-8)	656	
5																							
5	hailand	431	(3.5)	86	(21)	408	(4.2)	449	(3.7)	-41	(41)	250	(6.5)				(3.8)	488	(3.4)	540	(4.6)		
3 4 1	hailand risidad and Tobago	431 413 393	(3.5)	125 102	(1.4)	108 182 379	(2.3) (2.3)	444 406	(0.7)	-41 -42 -27	(27)	290 192 221	(4.8) (5.7)		(6-4) (5-0)	332	(3.8)	501 463	(3.0)	567 523	(3.2)	607 539	

Note: Values that are statistically significant are indicated in bold (see Annex A3). Science (IEEE) http://dx.doi.org/10.1787/88953243285



_									Proficies	cy levels							
		fiess the	Level 1b n 262.04 pointsi	less than	d 16 62,04 to 6334,75 points)	(from 3 less tha	el 1a 34.73 to a 407.47 points)	(from 0 less that	rel 2 07.47 to a 480.18 points)	less than	50.18 to	(from 5 less that	ell 4 52.89 to n 625.61 points)	threen 6: less than score	25.61 to 698.32	above	el 6 698.32 points)
		%	5.1.	2	5.0.	%	S.E.	5	5.1.	5	S.E.	%	5.1.	%	S.E.	%	5.1.
CD)(Australia	1.0	(0.1)	3.7	(0.2)	10.9	(0.5)	29.7	(0.5)	27.6	(0.7)	22.9	(33.4)	10.5	(0.5)	2.7	(0.4)
ő.	Austria	1.8	(0.2)	7.5	(0.6)	17.6	(0.5)	25.2	(1.3)	25.7	(1.0)	17.1	(1.0)	47	(0.5)	1.5	(0.1)
	delgium Canada	1.4	(0.3)	5.1	(0.4)	12.6	(3.6)	20.5	(0.7)	26.9	(0.7)	23.3	(0.8)	10.6	(0.6)	7.5	(0.3)
	Chile	1.3	(0.2)	7.5	(0.2)	21.2	0.0	32.6	(3.2)	25.5	(1.6)	9.9	(0.5)	1.9	40.40	0.1	(0.2)
	Crech Republic	0.6	(0-2)	4.5	(0.5)	15.5	(0.5)	26.3	(1.1)	27.3	(1.1)	18.7	(1.2)	6.6	49.60	0.7	(D-2)
	Denmark	0.5	(0.1)	3.1	(0.3)	12.3	(0.6)	26-8	(5),90	33.0	ED.50	19.8	(0.9)	4.4	49.50	0.2	(0.1)
	Estonia	0.2	02.1)	2.4	(0.4)	11.6	(9.6)	25.4	(7,7)	33.2	(1,1)	20.9	60,91	5.6	19.50	0.6	00.21
	Finland	0.2	(0.1)	1.3	(0.2)	63	(0.4)	16-6	(0.6)	29.7	(0.0)	30.0	(0,0)	13.6	(0.7)	2.2	(0.3)
	France	2.6	02.53	5.8	(0.6)	123	(9-6)	20,4	{1.00	25.7	(1.1)	21.6	(1.0)	9.9	(0.0)	1.8	(0.3)
	Germany	0.7	(0.2)	42	(2.4)	12.8	(0.5)	22.4	(2.5)	27.9	(1.2)	22.7	(1.2)	8.3	(0.7)	0.9	(0.2)
	Greece	1.0	(0.3)	5.0	(0.7)	14.7	(1.1)	26.5	(0.5)	28.5	(1.1)	18.5	(1.7)	5.1	(0.5)	0.6	(0.2)
	Hungary	0.5	(0.2)	3.7	(3.4)	12.8	(0.9)	24.3	(1.3)	30.7	(1.2)	21,7	(1,2)	60	(0.7)	0.4	(0.1)
	Iceland Ireland	1.1	(0.2)	41	(0.6)	11.9	(0.8)	21.5	(0.7)	29.4	(0.9)	22.2	(0.8)	6.9	(0.6)	0.8	(0.3)
	Israel	3.5	(0.4)	8.2	(0.7)	15.2	(0.8)	22.9	(0.5)	25.4	(1.0)	17.7	19.70	6.2	(0.5)	0.9	(0.2)
	Italy	1,1	(0.2)	4,5	(0.7)	13.9	69-40	24.4	(0.5)	29.2	(0.6)	20.4	40.50	5.8	0.31	0.6	(0.1)
	Japan	1.2	(0.3)	3.4	(0.5)	9.3	40.70	18.9	(0.0)	27.1	(0.6)	26.2	(0.3)	11.3	(0.3)	2.6	40.50
	Korea	0.2	(0.1)	0.9	80.4)	43	10.60	15.7	(1.0)	31.7	(1.1)	32.4	(1.30	12.9	(1-3)	2.6	60-20
	Luxembourg	2.6	(0.3)	7.2	(2.4)	16.2	(0.6)	23.8	(0.8)	25.0	(0.7)	17.7	(0.6)	5.9	(0.4)	0.7	(0.2)
	Mexico	40	(0.4)	13,0	(0.6)	26.9	(0.0)	31,3	(0.6)	191	(0.0)	5.1	(0.4)	0.5	(0.1)	0.0	(0.0)
	Netherlands	0.1	(0.1)	2.7	(0.4)	14.1	(1.5)	24.4	(1.2)	26.2	(1.2)	21.7	(1.7)	9.6	(0.9)	1.3	[0.3]
	New Zerland	1.0	(0.2)	3.6	(0.5)	10.5	(2.5)	20.3	(0.7)	25.2	(0.8)	23.3	(0.8)	12.5	(0.8)	3.1	(0.4)
	Norway	0.6	(0.2)	3.7	(0.4)	11.9	(0.7)	23.7	(1.3)	30.0	(1-1)	20.9	(1.0)	8.2	(0.6)	1.1	(0.2)
	roland	0.5	(0.1)	3.1	(0.4)	11.5	(0.7)	24.5	(0.5)	29.9	(1.0)	22.0	(0.9)	7.5	(0.6)	10	(0.2)
	Portugal	0.5	(0:2)	3.9	(0.4)	34.4	(0.5)	27.2	(0.9)	30.6	(1.2)	18.1	(0.8)	4.8	(0.5)	03	(0.2)
	Slovak Republic Slovoja	0.6	(0.3)	4.7	(0.6)	16.0	(9.6)	28.1	(0.0)	28 6	(1.2)	17.2	(0.9)		(0.5)	0.4	(0.1)
	Spain	1.1	02.11	4.5	(0.4)	15-0	(0.7)	27.5	(170)	29-2	(0.8)	20.0	(0.6)	3.3	10.5)	0.3	(0.1)
	Sunden	1.0	(0.1)	4.6	(0.6)	12.7	(0.7)	71.4	(1.0)	38.5	(0.5)	19.4	(1.0)	8.1	10.6)	1.5	(0.1)
	Switzerland	0.8	00,25	43	(2.4)	12.5	(0.7)	22.4	(0.7)	28.0	(0.2)	72.7	(1.0)	82	(0.7)	1.2	(02.3)
	Turkey	0.4	(0.1)	5.3	12 (1)	20.5	(1.0)	33.8	(1-1)	27.8	(1-2)	11-0	(1.1)	1.2	10.53	0.0	00:00
	United Kingdom	1.0	40:23	4.5	(0.4)	14.6	(0.7)	25.0	(0.8)	281	(0.8)	18.5	(0.7)	7.1	(0.4)	1.2	(0.2)
	United States	0.7	(0.2)	4.7	(0.5)	14.5	(0.6)	24.9	(0.8)	26.0	(8.0)	19.1	(0.5)	8.2	(9.7)	1.8	(0.4)
	OECD total	1.2	19 11	5.2	(0.25	14.6	(0.3)	36.6	(0.3)	26.8	(03)	19.1	(0.3)	-7.2	(0.2)	13.	(0,1)
	OECD average	1:1	(0.0)	4.5	03.57	13,6	40.81	242	(D2)	28,1	(0.2)	20.2	(0.2)	7.2	(0.3)	3.0	(0.0)
-	Albania	9.6	60.69	17.4	(1.0)	26.6	(1.3)	27.1	0.0	15.1	(7.2)	3.9	ms)	0.3	60.11	0.0	48.00
Parthers	Argentina	10.9	(1.1)	16.4	(1.0)	25.0	(1.1)	25.0	(1.3)	15.5	(1.1)	6.0	(D.B)	1.2	(0.3)	01	[0.1]
ā	Azerbaijan	5.3	(0.7)	23.4	(1.4)	40.0	(1.2)	23.8	(1.4)	51	(0.7)	0.3	(01)	0.0	(0.0)	0.0	c
	Smzil	5.5	(0-4)	12.4	(0.7)	29.3	(0.8)	26.3	(0.8)	14.7	(5.6)	5.5	(0.5)	1.1	(0.2)	0.1	(0.1)
	Bulgaria	5.6	(0.8)	12.8	(1.3)	20.5	0.9	24.9	(1.4)	21.8	(1.5)	11.4	(1.1)	2.7	(0.5)	03	(0.1)
	Colembia	4.7	(0-7)	14.7	(1.1)	28.9	(1.2)	29-8	(1.1)	16.5	(1.1)	4.7	(0.5)	0.6	(0.2)	0.0	(0.0)
	Croatia	0.6	(0.1)	4.9	(0.6)	16.9	(1.1)	293	(1.0)	30.9	(1.1)	15.0	(1.0)	2.2	10.3)	0.1	(0.0)
	Dubai (UAL)	3.5	(0.3)	9.7	(0.40)	70	(0.43) (0.43)	25.5	(0.9)	22.7	(0.8)	141	(0.4)	11.5	(0.5)	1.5	(0.2)
	Hong Keng-China Indonesia	1.8	(0.2)	15.4	(8.3)	39.0	(0.6)	33.3	(0.9)	9.5	(1.2)	0.9	(1.2)	11.5	(0.7)	0.0	(0.2)
	tordan	48	(0.4)	13.0	(8.3)	28.2	(1.1)	33.3	(1.0)	17.1	(1.0)	30	(0.4)	0.1	(0.0)	0.0	60.03
	Kazakhstan	5.2	(0.4)	19.3	(1.3)	31.8	(1.1)	26.0	03-51	13.7	10.59	3.6	(0.5)	0.4	49.10	0.0	(0.0)
	Kyrgyzsłan	22.5	(13)	32.0	(1.4)	281	(0.5)	13.0	30.59	37	10.49	0.7	(0.2)	0.0	40.00	0.0	c
	Latvia	04	(0.1)	2.7	(0.5)	14.2	(1.0)	29 8	(1.2)	32.7	(1.1)	17,1	(1.0)	3.0	(0.4)	0.1	(0-1)
	Liechtendein	0.4	(0.4)	4.4	(1.2)	12.2	(2.1)	23.5	(2.5)	305	(3.2)	23.2	(2.7)	5.2	(1.8)	0.7	(0.6)
	Lithuseia	8.0	(0.2)	4.9	(0.5)	18.5	(0.9)	31.2	(1.3)	27.7	(1.0)	13.8	(8.0)	2.9	(0.4)	0.1	(0.1)
	Macae-China	0.2	(0.1)	2.5	(0.2)	12.4	(0.4)	30.4	(0.7)	33.7	(9.7)	17.5	(0.5)	3.3	(0.3)	0.1	(0.1)
	Montenegro	3.7	(0.3)	128	(0.7)	27.8	(0.5)	30.6	(0.8)	18.8	(9.7)	5.7	(0.4)	0.7	(0.3)	0.0	(0.0)
	Panama Presi	11.3	(1.6)	23.7	(1.1)	30.8	(1.1)	21.2	(1.6)	9.9	(14)	2.7	(0.6)	0.4	(0.1)	0.0	90.09
	Peru Qatar	14.0	(0.4)	22.4	(7.1)	28.3	(0.4)	21.9	(0.9)	10.1	(0.3)	3.1	(0.5)	1.2	(0.2)	0.1	(0.1)
	Romania	3.4	(0.4)	12.4	(1.0)	25.1	(1.3)	32.2	(1.3)	20.6	(0.3)	5.7	(0.7)	0.7	(0.2)	0.0	(0.1)
	Russian Federation	1.2	10.37	6.0	(0.6)	17.9	60/56	31.0	(1.0)	27.0	(1.3)	13.0	(3.0)	36	(0.5)	0.0	(0.0)
	Serbia	1.7	(0.3)	8.4	0.6	223	00.90	32.7	10.60	25.4	(0.8)	8.4	(0,6)	1.1	00.21	0.0	40.00
	Shanghai-China	0.0	(0.0)	0.5	(0.1)	3,4	(0.5)	133	(0.8)	283	(1.1)	33.2	(0.5)	18.0	00.51	3.1	(0.4)
	Singapore	0.6	(0.1)	3.0	(0.3)	3.9	(0.5)	19.2	(9.7)	24-2	(9.7)	24.8	(0.9)	12.9	(0.5)	3.5	(0.3)
	Chinese Taipei	0.4	(0.2)	3.2	(0.4)	11.6	(0.6)	24.5	(CD 85)	32.7	(1.0)	21.3	(0.9)	59	(0.7)	0.5	(0.2)
	Theiland	14	(0.3)	11.1	(0.1)	33.5	(1.1)	35 6	(1.2)	152	(0.8)	3.0	[0.5]	0.2	(0.1)	0.0	(0 t)
	Trinidad and Tobago	82	(DL6)	14.3	(0.6)	22.0	(0.8)	25.9	(1.0)	18.5	(0.8)	8.6	(0.6)	2,2	(0.3)	0.2	(0.1)
	Tunisia	5.6	(0.6)	17.2	(7-0)	32.9	(7.3)	30.3	(13)	11.9	(0.8)	19	(0.4)	01	(0.1)	0.0	(0.0)
_	Uruguay	5-1	(U 6)	13-1	92.55	24.8	(8-6)	25-0	(0.9)	15.1	93-7)	7.3	(0.5)	1.5	(0.3)	(1)	(0.1)





[Fart 1/2] Percentage of students at each proficiency level on the reading subscale integr

Table 1.2.8 and interpret, by gender Boys - Proficiency levels Level 1a Level 2 tevel 3 Level 5 om 334.75 to m 407.47 to em 450.18 to (from 532.89 to m 623.61 to om 262.04 few than 262.04 on 33473 [ess than 407,47] on then 480.16 less than 552.89 less than 625.61 less th score points score accepts) S.E Australia Austria Belgum Canada Chile (3.0) Czech Republic Denmark Estonia Finland Germa 5.8 Greece Hungary 08 26.5 (16) 28.9 40,11 Iceland treland (D II) Israel Italy Ispan Keeea 28.6 Lucambaura Mexico (0.0) Netherland New Zealand (0.4) 0.0 22.3 24.2 20.2 (1.2) 10.0 Norway Pedard **Fortugal** Slovak Recublic 30.8 (1.3) 24.1 Spain (0.9) Sweden Switzerk 18.4 Burkey United Kingdo 25.5 United States OECD total OFCD average Albania Accepting Azerbaijan 27.5 39.7 Bearif Eulzaria Croatia Dubai (UAI) Hong Kong-China Indonesia jordan 28.7 n n Kazakhstan Kyrgyzstan Liechtenst Lithuania Maran China Montenegro Fanama n.pi Qatar Romani Russian Federal (0.4) (1.0) Serbia Shanghai-China 13.5 Singapore Chinese Taigei 0.8 10.85 26.4 Thailand Trinidad and Tob

Station (2000 http://dx.doi.org/10.1787/889802340285

Uruguay



Girls - Proficiency levels

								Cir									
		diese tha	Level 1b in 262.0- points)	less than	62.64 to	(from 3	el 1a 34.75 to a 407.47 points)	(from 6 less than	rel 2 07.47 to a 400.18 points)	from 6	el 3 80.18 to n 552.89 points)	(from 5 less than	el 4 52.89 to 6.25.61 points)	from 6 less than score	25.61 to 698.32	(above	vel 6 c 6/95.32 points)
		16.	S.E.	15	S.E.	%	S.E.	~	S.E.	%	S.E.	44.	S.E.	%	S.E.	46	S.E.
0	Australia	0.5	60.13	2.3	00.39	8.0	(0.6)	10.9	60,73	28.9	40.40	25.7	(0.7)	12.5	60.69	3.2	(0.5)
2	Austria	0.8	(0.2)	5.2	(0.8)	13.8	(1.2)	24.7	(1.8)	28.0	41.23	20.6	0.40	6.3	(0.7)	0.6	ID 21
٥	Eclgium	1.0	(0.3)	3.9	(0.6)	10.5	(0.5)	19.3	(0.9)	26.0	(1.0)	25.5	(1.1)	11.9	(0.8)	1.8	(0.4)
	Canada	0.1	(0.1)	1.2	(9.2)	6.5	(0.4)	18.4	(0.8)	29.7	(0.9)	27.4	(0.7)	13.6	(0.7)	3.0	(0.4)
	Chile	0.6	(0.2)	5.4	(0.7)	18.7	(1.5)	33,4	(1.8)	28.3	[1.49	11.1	(1.1)	2.4	60.60	0.1	(0.1)
	Czech Republic	0.2	(0.1)	2.4	(0.5)	10.2	(1.1)	22.7	(1.2)	29.6	(1.4)	24.6	(1.6)	9.3	(1.0)	1.1	(0.3)
	Denmurk	0.3	(0.2)	2.3	(0.4)	100	(0.2)	24,2	(1.1)	34.9	(1.3)	22.6	(1.1)	56	(0.7)	0.2	(0.1)
	Estoria	0.0	(0.0)	0.9	(0.3)	6.7	(0.4)	21.5	(1.3)	35.2	(1.3)	26.5	(1.3)	7.8	10.40	3.1	(0.4)
	Finland	0.1	(0.1)	0.5	(0.2)	2.9	(0.5)	11.2	(0.9)	27.6	(1.1)	35.7	(1.1)	15.7	(1.0)	3.4	(0.4)
	france	1.4	(0.4)	3.6	(0.5)	100	(10)	18.6	(8.3)	27.4	(1.3)	24.6	(1.7)	11.9	(1.1)	2.3	(0.4)
	Germany	0.2	(0.3)	2.5	(0.5)	9.4	(0.5)	19.7	(1.0)	26.6	(1.6)	26.9	(1,4)	11.3	(1.3)	1.3	(0.4)
	Grece		(0.2)	2.7	(0.7)		(1.0)		(1.4)				(1.5)	6.4	(0.7)		(0.3)
	Hungary	0.1	(0.2)	2,2	(0.7)	8.7	(0.1)	22.2	(1.5)	32.5	(1 8)	25.8	(1,9)	103	(1.0)	0.6	(0.2)
	tceland Ireland	0.5	(0.2)	1.8	(0.4)	9.8	(0.7)		(1.2)	31.6	(1.6)	25.6	(1.3)		(1.0)	1.8	(0.4)
	Iretand	1.7	(0.3)	5.4	(0.5)	13.5	(0.8)	22.0	(1.1)	28.8	(1.3)	24.9	(1.2)	9.0	(0.9)	1.0	(0,3)
	Italy	0.4	(0.2)	2.1	(0.0)	93	(0.4)	22.3	(0.8)	32.5	(0.2)	25.0	40,73	7.7	(0.4)	0.9	(0.2)
		0.6	(0.2)	1.6	(0.2)	6.5	60-60	168	(1.2)	263	(1.2)	29.5	(1.6)	13.3	(1.0)	3.4	(0.2)
	Japan Korea	0.1	(0.3)	0.3	(0.7)	2.3	(0-0)	121	(1.5)	31.0	(1,7)	36.6	(1.6)	15.6	0.6	19	(0.4)
	Luserebourg	1.3	(0.1)	45	(0.6)	13.3	(L.1)	23.9	(1.1)	28.0	(1.0)	20.8	10.59	72	(0.5)	09	(0.2)
	Mexico	2.6	(0.4)	10.2	00.63	25.2	10.59	33.4	(0.7)	21.6	40.80	63	(0.4)	0.6	40.33	0.0	(0.0)
	Netherlands	0.0	(0.0)	1.0	(0.4)	11.9	(1.4)	23.1	(1.5)	26.5	(1.5)	243	(2.0)	10.6	(1.1)	1.5	[0.4]
	New Zealand	0.7	(0.0)	1.7	(0.5)	7.7	(0.6)	18.2	(1.0)	26.3	(1.1)	26.5	(1.1)	15.2	(1.3)	4.2	(0.4)
	Norway	0.1	(0.1)	1.6	00.40	8.0	(0.7)	20.2	(1.4)	31.7	(1.7)	25.1	(1.7)	19.8	40.50	1.7	(0.5)
	Poland	0.1	(0.1)	0.8	60.30	69	63.89	25.5	(14)	32.9	(1,2)	26.7	(1.2)	9.9	40,60	15	(0.3)
	Portugal	0.2	(0.1)	22	(0.4)	10.0	(0.5)		(1.2)	34.2	17.39	21.2	(1.0)	60	40.40	0.5	m 41
	Skyak Republic	0.1	(0.21	1.5	40.49	10.1	(0.5)	25.6	(1.4)	33.0	(1.0)	22.2	(1.5)	5.6	(D.E)	0.6	(0.3)
	Slovenia	0.0	(0.0)	1.5	40.23	90	(0.7)	23.0	(1,2)	32.9	D-23	25.2	(1.3)	7.8	40.50	0.5	(0.2)
	Spain	0,6	(0.2)	3,0	(0.5)	11.0	(0.8)	263	(1.0)	348	(1.2)	20,1	(0,9)	4.1	40.40	0.3	(0.1)
	Sweden	0.9	(0.3)	2.6	(0.6)	9.3	(1.0)	21.6	(1.4)	30.8	(1.5)	22.8	(1.1)	10.0	(0.9)	2.1	(0.4)
	Switzerland	0.4	(0.1)	2.6	(0.4)	20	(לגמ)	19.7	(0.5)	28.9	(1.3)	27.2	(1.3)	10.5	(0.5)	16	(0.4)
	Turkey	0.2	(0.5)	2.4	(0.5)	13-5	(1-4)	33.9	(8-2)	33.1	(1.7)	14.7	(1-6)	2.0	(0.5)	0.1	(0.1)
	United Kingdom	0,6	(0.2)	3.1	(0.5)	12.1	(0.17)	24.5	(1.0)	30.1	(0.1)	20.4	(0,40)	7.9	(0.7)	1.3	(0.3)
	United States	0.3	(0.1)	3.1	(0.4)	12.4	(1.1)	24.6	(1.2)	27.3	(1.0)	20.5	(1.2)	9.2	(0.9)	2.3	(0.5)
	OECD total	0.7	40 TJ	33	(0.1)	11.5	(0.5)	23.6	(0.4)	286	(0.4)	21.7	(0.4)	86	(0.3)	12	10.2)
	OECD average	0.5	(0.0)	2.7	(0.1)	10.2	(0.2)	22.A	(0.2)	30.1	(D.21:	23.2	(0.2)	9.0	(0.29)	1.6	80,11
	Albania	40	(0.7)	11 6	(1.0)	24.7	(1.4)	13.5	(1.3)	20.2	(1.5)	5.5	(D B)	0.5	(0.3)	0.0	c
Parlance	Argentina	7.7	(1.1)	14.1	(1.1)	24.8	(1.4)	26.8	(1,2)	17.9	(1.3)	7.1	(1.1)	1.6	(0.4)	0.1	(0.1)
Ē	Azerbaijan	3.4	(0.61	19.2	(9,7)	10.4	(1.5)	303	(1.6)	63	10.50	0.4	00.23	0.0	(O.4)	0.0	[0.1]
•	Rearil .	3.6	(0.4)	14.3	(3.0)	26.1	(1.2)	28.9	(0.9)	16.9	10.59	6.5	(0.4)	1.3	(0.0)	0.1	(D.1)
	Bulgaria	22	(0.4)	83	(2.3)	167	(1.7)	27.2	(3.9)	25.9	(1.59	152	(1.6)	140	(0.7)	04	(0.2)
	Colombia	4.5	(0.9)	14.5	(8.2)	27.6	(1.5)	30.3	(1.5)	173	D.49	53	(0.8)	0.7	40.20	0.0	(0.2)
	Croatia	0.1	(0.1)	1.6	(0.4)	11.0	(1.1)	27.6	(1,4)	36.2	(1.5)	203	(15)	3.4	(0.6)	0.1	(0.1)
	Dubai (UAE)	1.0	(0.7)	5.5	10.73	15.9	(0.8)	27.9	(1.1)	26.6	(1.1)	16.6	(0.5)	5.8	(0.6)	0.5	(0.1)
	Hong Kong-China	0.2	(0.1)	1.1	(0.4)	49	67	15.4	(1.0)	28.6	(1.2)	32.7	(1.5)	14.8	(1.0)	2.3	(0.5)
	Indonesia	0.6	(0.2)	99	(1.1)	347	0.0	40.2	0.25	13.2	(1.6)	1.3	0.5	0.0		0.0	
	Jordan	1.2	(0.4)	7.4	09:50	22.9	0.6	39,7	(1,2)	24.4	(1,5)	4.4	(0),(6)	0.2	02.12	0.0	(0.0)
	Kazakhetan	2.3	(0.5)	13.3	(5.5)	30.5	(1.6)	11.0	(8.3)	17.4	(1.2)	4.2	(0.7)	0.6	80.20	0.0	(0.0)
	Kyrgyzstan	13.2	(1.2)	30.4	(3.6)	33.3	0.9	16.8	(1.1)	5.2	10.60	1.0	00.23	01	40.1)	0.0	c
	Latvia	0.1	(0-1)	1.2	(0.4)	8.3	(1.0)	26.4	(1,5)	37.1	0.40	22.5	(1.3)	4.6	(0-6)	0.2	(0.1)
	Liechtenstein	0.1	(0.4)	2.3	(7.4)	10.6	(3-7)	19.1	(3.4)	31.5	(H-II)	29.0	(4.4)	6.0	(3.1)	1.3	(1.1)
	Lithuania	0.1	(0.1)	1.7	40.33	11-1	(1.0)	28.5	(1.7)	33.5	(1.4)	20.1	(1.1)	4.7	(0.7)	0.3	(0.1)
	Macae-China	0.0	(0.0)	1.6	(0.3)	8.5	(0.6)	27.7	(1-0)	35.8	(0.5)	21.9	(0.8)	4.5	(0.4)	0.2	(0.1)
	Montenegro	1.4	60-31	7.5	(7-1)	22.8	(1.1)	33.9	(3.2)	25.0	(1.2)	8.3	02-75	1.1	(0.5)	0.0	(0.0)
	Farama	9.1	(1.4)	20.6	(2.1)	29.5	(2.3)	23.3	(1.5)	13.3	(2.2)	3.6	(1.0)	0.6	(0.5)	0.0	(0.1)
	Peru	11.9	(1-0)	20.3	(14)	27/2	(1-4)	242	(8-3)	12.0	(1-2)	3.9	(0.6)	0.6	(0.2)	0.1	(0.1)
	Qatar	6.1	(0.5)	19.3	(0.7)	26.6	(0.8)	24.7	(0.6)	14.1	(0.5)	5.5	(0.3)	1.5	(0.2)	0.1	(0.1)
	Romania	1.7	(0.4)	8.0	(1.0)	22.0	(1-7)	34.5	(1-7)	25.0	(1.7)	7.7	(1-0)	1.2	(D-3)	0.0	63.00
	Russian Federation	0.5	(0.2)	3.3	(0.4)	12.8	(1.1)	29.6	(1.4)	31.2	(1.5)	16.9	(1.2)	5.1	(0.7)	0.5	(0.2)
	Serbia.	0.7	(9.2)	49	(0.6)	12.4	(1-1)	34.2	(1.2)	30.7	(1.1)	10.5	(3-6)	1.5	(0.3)	0.1	(0.1)
	Shanghai-China	0.0	19-09	0.2	(0.1)	1.5	(0.3)	9.3	(9.6)	26.2	(1.2)	36.0	(1.1)	22.5	(1.3)	42	(0-6)
	Singapore	0.2	(0.1)	1.6	(0.3)	5.0	60-60	18.0	(0.9)	25.9	(1.0)	27.1	(1-2)	15.1	00-81	4.2	(0.4)
	Chinese Taipei	0.1	(0.1)	1.5	(0.3)	8.2	(0.6)	22.5	(1.2)	35.2	(1-6)	24.0	(1:3)	7.8	(1.3)	0.7	(0.4)
	Thailand	0.6	(0-2)	6-2	(3-7)	29-8	(1.4)	40.7	(1-5)	18-4	(1-1)	4.0	(0.8)	0.3	(0.2)	0.0	(0.0)
	Trinidad and Tobago	4.4	(9-7)	10.2	(0.7)	20.0	(1.1)	281	(1.4)	22.2	(1-3)	11.4	(0.7)	3.3	(0.5)	0.3	40.1)
	Turisia	2.9	(0.6)	13.6	(1-2)	32.7	(8.7)	340	(1.4)	14.5	(0.9)	2.2	(0.5)	D-1	(0.1)	0.0	(0.0)
	Urugury	2.7	(0.4)	9,4	(0.5)	23.5	(1.0)	31.7	(1.5)	21.8	(1.2)	89	(0.7)	1.9	(0.4)	0.1	(0.1)

Scattink Note: http://dx.doi.org/10.1787/888832343285





[Fart 1/1] Mean score, variation and gender differences in student performance on the reading subscale Table 130. Extracrete and intercent.

Table 1.2.9	integ	rate	and	inte	rpret																	
		All vis	adcets			Cc	eder é	ifferen	ces							Perce	etiles					
	Mean	score		dard ation		.ys	c		(5	- C)	,	sh.	10	tih .	2:	seh	7.	Sth	90	oth	9	5 th
	Mean	S.E.	S.D.	S.E.	Mean	S.E.	Mean	SE	Score dif.	S.E.	Score	S.E.	Score	S.E.	Score	S.E.	Score	S.E.	Score	S.L.	Score	SE
Australia		(2.4)	102	(1.6)	495	(2.9)	529	(2-8)	-34	(3-2)	337	(3.6)	377	(3.1)	444	(2.5)	584	(2.5)	641	(3.6)	673	(4.5
Australia Austria		(2.9)	99	(2.0)	451	(3-6)	490	(4.0)	-39	(5.5)	305	(5.8)	339	(4.4)	402	(4.3)	544	(3.9)	598	(4.1)	626	(4.0
Belgum		(2.5)	105	(1.0)	492	(2.4)	516	(3.2)	-24	(64)	320	(5.5)	340	(4.5)	430	(3.5)	584	(2.3)	635	(2.2)	662	C1.4
Chile		(1.5)	94	(0.5)	507	(1.9)	537	(1.8)	-30	(2.2)	363	(1.2)	398	(2.9)	458	(1.5)	510	(1.8)	542	(2.1)	593	(3.0
		(3.1)	93	(1.5)	442	(3.5)	513	(3.2)	-21	(4.4)	334	(5.2)	342	(4.7)	421	(0.19)	510	(3.4)	610	(4.3)	639	(4.8
Czech Republic Denmark		(2-9) (2-D)	93	(1.3)	480	(3-7) (2-5)	504	(3-2)	-15	(4.4)	334	64.50	360	(3.7)	437	(2.7)	552	(2.3)	597	(8.2)	623	0.5
Estoria		(2 8)	34	(1.5)	480	(3.3)	522	(2.5)	-24	(2.9)	358	(5.3)	381	(4.0)	644	(3.5)	559	(2.3)	605	(1.9)	623	64.3
Finland		(2.3)	25%	(2 co	513	(2.6)	188	(2. F)	-50	0.31	385	(3.7)	475	C1 43	487	(2.7)	800	(2.7)	5.67	(7.9)	574	11.2
France		(3.6)	111	(2.80	477	(5.4)	516	13.63	-39	C3.90	300	18.60	3.68	06.80	626	(5.2)	577	64.33	636	(S.O)	664	44.3
Germany		(2.8)	96	(2.50	481	(3.5)	521	13.09	-40	66.33	315	(5.2)	371	04.45	433	(4.3)	572	(3.5)	621	(3.0)	649	0.7
Greece		(4.0)	93	12.09	464	64.95	934	3.63	-40	64.06	328	(6.5)	362	(7.6)	421	(5.4)	551	(3.6)	602	(3.5)	631	13.6
Hungary	496	(2.2)	199	(2.1)	478	64.08	534	(3.6)	-36	64.13	343	(6.7)	176	45.65	435	(4.7)	560	(3.59	609	(3.7)	634	14.4
Iceland	503	(1.5)	98	(1.3)	483	(2.7)	522	(2.7)	-39	(3.2)	312	(4.9)	172	41.11	438	(3.3)	571	(7.3)	625	C3.04	654	(2.1
Ireland	494	(3.0)	97	(2.1)	476	64.43	512	0.0	-37	(4,8)	328	(7.59)	367	(5.3)	432	(4.3)	562	(2.59	613	(3,3)	641	03.5
teraci	473	(3.4)	110	[2.4]	454	(5.0h	491	(3.4)	-37	(5.3)	281	07.8h	324	(8.49)	392	14.93	552	(3.3)	609	(3.6)	641	(4.1
Italy	490	(1.6)	94	(1.3)	469	(2.3)	512	(1,85	-43	(2.7)	328	8.6	365	(2.6)	427	(2.1)	558	(1.8)	607	(1.50)	635	(2.1
Jagan	520	(3.5)	102	(2.6)	502	(5.6)	538	(3.8)	-36	(5.8)	340	90)	384	(7.0)	455	(4.8)	591	(3.2)	642	(4.3)	672	(5.1
Korea	541	8 40	81	(2.1)	526	(67)	557	(4.1)	31	05-09	398	(8,8)	435	(5.8)	469	(4 30	598	(3.5)	639	(3.5)	564	03
Luxembourg		(1-1)	104	(1-1)	457	(1-8)	494	(9-4)	-37	(2.4)	294	(4-1)	336	(2.8)	604	(2.2)	551	(1.9)	606	(2-2)	637	33
Mexico	418	(2.0)	87	(1.1)	406	(2.2)	431	(2.1)	-25	(1 6)	272	(3.5)	305	(2.7)	360	$\{2,3\}$	479	(21)	529	(2.5)	555	\$3.0
Netherlands		(5.4)	94	(1.8)	494	[54]	515	(5.5)	-22	(2.5)	353	(5-6)	381	(5.0)	432	(6-2)	575	(6.2)	630	(5-0)	658	(4.5
New Zealand		(2.4)	105	(1.7)	497	(3.8)	539	(3.0)	-42	(4.8)	338	(5.8)	379	(4.7)	445	(3.5)	593	(3.3)	652	(3.6)	681	(5)
Norway		(2.7)	94	(1.3)	481	(3.0)	524	(3.2)	-42	(3.1)	341	(4.3)	377	(4.3)	440	(3.1)	567	(3.4)	622	(3.6)	652	(4)
Foland		(2.8)	91	(7.2)	479	(3.0)	526	(3.0)	-47	(27)	349	(4.6)	383	(4.3)	442	(3.3)	567	(3.5)	617	(3.3)	648	(3.
Fortugal		(3.0)L	87	(1.5)	469	0.51	503	12.99	-34	(2.3)	340	(4.3)	371	(4.1)	427	(4,1)	5-45	(3.2)	599	(3.7)	627	13.
Slovak Republic		(2.5)	89	(1.9)	456	(3.4)	505	(2.9)	-49	(IL5)	332	(5.4)	364	(4.8)	419	(3.4)	545	(1.0)	596	(3.4)	625	14.
Slovenia		(1.1)	90	(0.9)	464	(1.5)	514	[1.5]	-50	(2.3)	335	(3.4)	365	(2.0)	425	[2.3]	555	(2.3)	603	(2.4)	631	[4.
Spain		(2.0)	87	(1.0)	468	(2.1)	494	(2.2)	-27	(2.1)	329	(6.23	366	(3.6)	425	(2.8)	541	(1.59	588	(1.9)	614	(2.3
Sweden		(3.0)	102	(1.6)	475	(34)	514	(3.4)	-40	(3.2)	319	(6.0)	362	(4-7)	429	(3.5)	564	(3-5)	624	(3.9)	655	(4:
Switzerland		(2.5)	97	(1.5)	484	(2.50	521	(2.7)	-37	(2.6)	334	(4.5)	372	(3.5)	436	(2.5)	572	(2.5)	623	(3.7)	652	(B.
Turkey		(3-3)	78	[1-7]	440	(3.5)	480	(3-9)	-41	(3.4)	330	[4.5]	358	(3-3)	405	(3.3)	515	(4.3)	562	(5.7)	588	[5]
United Kingdom		(2.4)	97	(1.2)	479	(3.6)	501	(0.0)	-22	(4-6)	330	(4.0)	364	(3.2)	424	(1.0)	558	(2.8)	615	(3.2)	650	
OfCD total		(3.7)	100	(1.7)	484	(4.4)	506	(3.8)	-22	(3.7)	331	(3.9)	364	(3.8)	425	(4.1)	565	(4.6)	626	(5.3)	660	(6.0
OECD total		(1.2) (0.5)	94	(0.0)	475	(1.5)	512	(0.5)	-30	(D4) (DA)		(7.6)		((A)	430	0.31	561			(1.7)	642	(2.1
Oten wenge	995	(0.5)	194	(03)	4/6	(U.b)	312	(0.5)) -Je	(SLEE	352	(0.56	568	W1.51	450	(0.6)	20%	1000	, 613	((YP)	642	- QUL
Albania	393	(3-8)	98	2.0	365	(4.6)	423	(3.9)	-58	(41)	226	(6.4)	265	(5.9)	329	(4.5)	463	(5.3)	517	(5.1)	547	(4
Argentina	398	(4.7)	109	(3.4)	379	(5.1)	414	(5.0)	-34	0.69	210	(TO ID)	256	(8-0)	326	(5-4)	473	(5.9)	536	(7.2)	571	07
Azerbaijan	373	(2.5)	68	(1.5)	363	(3.3)	384	(30)	-22	(2.2)	260	(4.5)	285	(4.1)	327	(3.6)	420	(3.1)	460	(4.2)	483	(4
Brazil		(2.7)	94	(1.5)	392	(2.9)	419	(2.8)	-27	(1.59	258	28		D-91	341	(2.7)	468	(3.8)	532	(4.3)	568	(S
Bulgaria	436	(6.4)	107	(2.4)	409	(70)	465	(5.7)	-55	(4.5)	256	080	299	(7.8)	360	(86)	514	(6.9)	572	(6.5)	604	(6
Colembia		(3-8)	89	62.08	407	(4.3)	415	(4.2)	-8	0.8	265	(7.4)		(5.7)	351	(4.7)	472	(3.7)	525	(4.4)	554	Ci-
Creatia		(2.9)	83	(1.5)	450	(1.4)	497	(3.5)	-47	(43)	331	(5.2)		(4.0)		(4-2)	532	(3.3)	577	(3.0)	602	(3
Dubai (UAI)		(1.3)	106	(1.1)	434	(1.9)	480	(1.7)	-47	(2.3)	279	(3.2)		[2.4]	383	(2.5)	532	(2.1)	594	(2.9)	627	(3.
Hong Kong-China		(2.2)	89	(1.5)	516	(3.6)	546	(3.0)	-30	(4.8)	372		412	(4.6)		(2.5)	592	(2.9)	639	(3.3)	666	(3
Indonesia		(3-5)	66	(1.8)	380	(3-6)	415	(2-7)	-35	(3-1)	291	(4.4)		(3-7)	352	(3.7)	442	(4.3)	462	(5.5)	505	(5
Jordan		(3.1)	34	(7.39	384	(4.5)	437	(4.0)	-54	(6.0)	264		300	(5.1)		(4.C)	468	(3.5)	513	(3-7)	228	(4
Kazakhstan		(3.0)	87	(1.5)	376	(2 OI	418	(3.6)	-42	[2.7]	260	(3.4)		(3-O)	336	(3.50)	456	(4.2)	513	(4.9)	544	(5
Kyrgyzstan Latvia		(2.9)	88	(1.9)	302 462	(3.6)	350	(2.9)	-48	(2.8)	183	(5.6)	215	(4.6)	430	(3.5)	384	(3.8)	440	(5.1)	611	(5
		(2.8) (4.0)	90	(3.5)		(5.3)	515	(5.5)	-44		332					(7.5)	563	(5.9)				
Liechtenstein		(2.4)	90	(3.5)	482	(5:3)	405	(2.5)	-33	(87)	336	(12.2)		(10.6)	436	(7.5)	563	(5.9)	578	(7.7)	632	0.0
Lithuneta			77	(0.7)	473		504	(2.5)	-30	(2.6)	357	(4.5)					542		588		613	
Macao-China		(0.8)	88	(1.4)	196	(1.5)	446	(2.3)	-51	(1.6)	276	27		(2.2)	361	(1.6)	481	(14)	533	(2.1)	564	(2
Montenegro Panama		(1.6)	94	(3.3)	357	(6-3)	307	(2-3)	-31	(5.2)	276	(3.7)		(3-2)		(7.4)	434	(7.3)	496	(2.8)	331	(3
Panama Fena		(569) (4.0)	100	(2.6)	357	(4.2)	107	5.0	-22	(4.9)	207	0.60		(4.9)	309	(4.3)	439	(5.4)	500	(7.3)	539	6
Orter		(+ U)	100	(2.4)	358	(1.0)	100	0.04	-22	(1.7)	207		249	(2.1)		(5.5)	439	(1.4)	523	(7.3)	565	0.
Someria		(a.m)	87	(2.2)	905	14.30	665	(4.4)	.39	66.33	279	0.6		(S.C)	366	15.30	486	(4.9)	535	(4.6)	563	(S
Russian Federation		(3.D)	90	(1.7)	445	(3.5)	489	(3.3)	-44	(0.5)	319		352	[5.0]		(3.7)	527	(3.8)	582	(5.M)	616	(5
Serbia		(2.4)	84	(1.5)	476	(3.7)	463	(2.6)	-37	(3.1)	304	(4.7)		[40]	3,89	(3.1)	504	(2.9)	551	(3.2)	577	G
Shanghai-China		(2.5)	01	(1.6)	540	(3.2)	576	(2.3)	-35	(3.0)	417	(5.7)		64.39	504	0.49	617	(2-5)	652	(3-2)	684	a
Singapore		(1.2)	101	(1.1)	511	(1.5)	539	(1.7)	-28	(2.7)	351	3.61		(3.3)	455	(1.59	598	(1.8)	652	(2.2)	683	(2
Chinese Tripei		(2.5)	87	(1.5)	483	(3.7)	515	37)	-32	(5.5)	349	(4.4)		0.80	441	(3.29	560	(3.3)	607	(5:0)	635	65
Thailand		(2.6)	72	(1.8)	396	(3-2)	432	(3.0)	-36	(3.8)	301	(4-4)		0.8	367	(2.9)	465	(2.8)	508	(3-8)	537	05
Trinidad and Tobag		(1.4)	109	(1.2)	392	(2.0)	445	(1.6)	-53	(2.4)	232	(3.8)		0.50	344	(2.2)	494	(2.3)	558	(3.5)	595	(4
Torrisia		(2.7)	81	(7.6)	3.78	(3.0)	606	(2.5)	-30	(2.2)	258	(4.3)		(3.5)	341	(3.2)	449	(3.4)	495	(6.2)	523	(5

Note Values that are statistically significant are indicated in bold (see Annex.A3)
Statistics (Inc.) https://do.doi.org/10.1797/989932343785



									Proficien								
		dess the	Level 1b is 262.04 points)	less than	52.04 to	(from 3 less than	el 1a 14.73 to 1407.47 points)	(from 4 less the	rel 2 07,47 to a 480,18 points)	less that	80.18 to	less that	52.89 to	from 6 less tha	25.61 to	above	rel 6 : 698.32 points)
		score	points)	SCORE	points)	score	poets) ST	score	posses) S.r.	score	S.r.	score	PHHOS 57	SCORE	S.L.	score	points)
÷	Australia	1.0	(0.1)	3.2	(0.3)	2.3	(0.5)	162	(2.6)	26.8	(0.6)	25.0	(0.6)	12.0	(0.4)	3.2	(0.4)
8	Austria	4.2	(0.1)	9.0	(0.7)	16.5	40.80	22.7	(1.0)	26.0	(1.1)	16.7	(0.8)	4.3	(0.5)	0.4	(0.4)
õ	Selgium	2.2	(0.6)	5.0	(0.4)	11.3	10.75	18.8	(0.6)	25.0	60.85	26.9	(0.6)	10.7	(0.5)	1.4	(0.3)
	Canada	0.3	(0.3)	1.8	(0.4)	6.5	(0.4)	17.6	(0.5)	29.5	10.63	28.5	(0.6)	13.2	(0.6)	2,7	(0.3)
	Chile	1.3	(0.3)	7.4	(0.7)	20.6	(0.9)	32.4	(1.0)	26.8	(1.0)	10.0	(0.7)	1.4	(0.4)	0.0	(0.0)
	Czech Republic	2.6	(0.3)	8.0	(0.7)	15.5	10.59	76.7	(1.0)	24.8	(1.0)	14.6	(0.9)	4.2	(0.4)	0.4	(0.1)
	Denmark	0.7	(0.2)	3.4	(0.4)	12.6	(0.7)	25.7	(0.9)	31.9	60.80	28.0	(1.0)	5.3	(0.5)	0.5	(0.1)
	Extenia	0.4	(0.2)	2.7	(0.4)	10.4	10.71	253	(1.1)	32.4	(1.2)	21.9	(1.1)	61	(0.5)	0.7	(0.2)
	finland	0.4	(0.2)	1.3	(0.2)	63	(0.7)	169	60.70	30.5	40.50	300	00.50	12.8	00.73	1.8	(0.3)
	France	2.4	(0.5)	5.8	(0.6)	12.0	10.5)	21.0	(8.1)	26.7	(1.0)	21.6	(1.0)	9.1	(0.8)	1.1	(0.3)
	Germany	1.5	(0.3)	5.5	(0,6)	12.6	(0.7)	22.6	(3.5)	29.3	(1.1)	22.0	(0.9)	6.0	(0.5)	0.5	(0.3)
	Greece	2.2	(0.5)	5.9	03.90	13.0	(0.0)	22.7	(0.8)	27.7	(1.0)	20.2	0.9	7.0	40.53	1,3	(0.2)
	Huggary	0.9	(0.3)	49	(0.7)	14.1	(1.1)	24.4	(1,3)	29.7	(1,1)	19.7	(1.0)	5.9	(0.5)	0.5	(0.1)
	Iceland	1.1	(0.3)	45	(0.4)	12.0	(0.7)	77.8	(0.7)	31.4	(1.1)	21.1	(8.0)	6.6	(0.5)	0.7	(0.1)
	Irriand	1.13	(0.3)	42	40.60	11.5	(0.7)	21.5	(0.7)	292	(1,0)	22.8	(1.0)	85	(0.7)	11	(0.3)
	Israel	4.0	(0.7)	7.3	(0.0)	13.0	(0.7)	21.4	80.80	251	(1.0)	19.5	(0.9)	8.0	(0.7)	1.6	(0.3)
	Italy	2.6	(0.7)	6.3	(0.6)	14.5	(0.7)	23.8	(0.8)	25.1	(0.6)	19.7	(0.5)	6.2	(0.7)	0.7	(0.3)
			(0.3)	19	(0.5)	91	(0.7)	17.5	(R.5)	25.9	(3.6)	25.0	(0,6)	12.7		3.6	(0.1)
	Japan.	1.9													(0.7)	2.0	
	Korea	0.3	(0.1)	7.5	(0.4)	5.3	(0,7)	15.5	(1.1)	36.1	(1.49	31.7	(1.3)	14.0	(1.1)	2.0	(0.4)
	Luxembourg	3.5	(0.3)	103	(0.5)	15.5	(0.4)	31.9	(0.40)		(0.7)	16.9	(0.0)	5.3	(0.5)	0.5	(0.1)
	Mexico	0.1	(0.3)	103	(0.4)	23.8	(0.6)	24.8	(0.6)	23.2	(0.6)	23.7	(0.3)	8.8	(0.1)	0.0	(0.0)
	Netherlands		(0.1)		(0.3)		(1.4)		(1.5)		(1.3)		(1-2)				
	New Zealand	0.9	(0.3)	3.4	(0.4)	95	(0.6)	17.5	(9.6)	24.0	(0.7)	25.0	(0.7)	149	(0.5)	4.7	(0.5)
	Norway	0.7	(0.2)	3.6	(0.4)	10.9	10.6)	22.6	(0.7)	30.7	(0.8)	22.4	(0.9)	8.0	(0.6)		(0.3)
	Poland	0.9	(0.2)	3.6	(0,4)	11,4	(0.89	24.3	(0.9)	31.3	(0.7)	21,4	(0.9)	6.5	(0.5)	0,4	(0.2)
	Portugal	0.7	(0.2)	4.2	(0.5)	12.5	(0.9)	23.7	(0.5)	30.2	(0.9)	20.9	[0.9]	7.0	(0.6)	0.6	(0.2)
	Slovak Republic	2.1	(0.4)	7.8	(0.7)	17.5	(0.5)	26.6	(1,2)	26-4	_{1,2)	15.4	(0.5)	39	(0.4)	0.3	(0.1)
	Slovenia	2.3	(0.2)	7.6	(0.4)	16.9	(0.6)	24.2	(0.9)	27.2	(1.2)	17.0	(1.0)	44	(0.6)	0.4	(0.2)
	Spzin	19	(0.3)	5.3	(0.4)	13.0	(0.7)	24.9	(0.7)	30.9	(0.7)	19.1	(0.7)	4.5	(0.3)	0.4	(0.1)
	Sweden	1.5	(0.3)	4.2	(0.4)	10.8	(0.7)	22-6	(9-8)	29.6	(9-6)	21.2	(0.9)	8.5	(0.7)	1:6	(0.3)
	Switzerland	1.0	(0.2)	4.7	(0.5)	124	(9.7)	23.0	(0.0)	29.1	(0.9)	21.7	(1.0)	7.1	(0.6)	1.1	(0.3)
	Turkey	1.4	(12.3)	6.0	(0.7)	173	(1.0)	27.5	(1.2)	27.5	(1-1)	15.8	(1.1)	3.9	(0.5)	0.5	(0.2)
	United Kingdom	0.0	(2:2)	3.8	(0.4)	12.2	(3.5)	23.5	(0.8)	28.2	(0.7)	20.9	(1.0)	8.8	(0.6)	1.8	(13.3)
	United States	0.5	(0.1)	3.3	(0.5)	11.1	(1.1)	22.2	(1.1)	27.4	(0.9)	23.1	(1.0)	10.2	(0.5)	2.2	(0.4)
	OECD total	15/6	98.73	88	10.21	12.9	(0.3)	28.1	(0.3)	27.4	(0.3)	30.7	43.33	8.1	(0.3)	1/5	10.1)
	OECD average	1.6	(0.3)	4.9	(0.1)	12-8	(0.8)	23.8	(0.2)	28.2	19.21	4.05	(0.2)	7.6	(0.1)	12:	(0.0)
		1					in m						00.00		de ex		In m
Partners	Albania	10.7	(7.29	18.7	(0.5)	26-2	(1.0)	23.6	(1.0)	13-2	€1.13 (1.13	3.3	(0.5) (0.6)	0.3	(0.1)	0.0	(0.0)
ŧ	Argentina		(1.1)	78.1						4.6	(1.1)						
4	Azerbaijan	21.5	10.40	13.1	(9.0)	28.9	(1.1)	16.2	(9.9)	185	(0.6)	0.7	(0.2) (0.6)	0.1	(0.0)	0.0	40.10
	Seazil							29.6				7.0				0.1	
	Bulgaria	11.3	(1.4)	13.4	(1.1)	19.4	(1.2)	23.0	(1.1)	19.9	(1.4)	10.0	(1.0)	2.6	(0.4)	0.4	(0.2)
	Colombia	40	(0.7)	13.2	(7.09	26-3	(1.0)	30.1	(1.3)	19.2	(1.2)	6.3	(0.7)	09	(0-2)	9.0	(0.0)
	Creatia	2.1	(0.5)	7,4	(0.7)	17.0	(1.0)	25.6	(1-2)	26.4	(1,1)	16.2	(0.9)	4.6	(0.5)	0.5	(0.1)
	Dubai (LIAE)	3.6	(0.3)	5.4	(0.5)	17.8	(0.7)	23.8	(3.6)	24.2	(0.7)	160	(0.6)	5.7	(0-4)	0.7	(0.2)
	Hong Kong-China	0.2	(0.1)	1.6	(0.3)	6.2	(0.5)	14.7	(2.7)	29.9	(1.3)	32.0	(1.2)	13.5	(0.9)	19	(0.2)
	Indonesia	19	(0.5)	32.2	(1.1)	35 1	(1.5)	35.8	(13)	13.3	(1.3)	1.7	(0.4)	0.0	(0:0)	0.0	c
	Jordan	7.6	(0.7)	13.5	(9.9)	26.3	(1.2)	298	(0.9)	17.6	(0.5)	47	(0.5)	0.5	(0.1)	0.0	(0.0)
	Kazakhstan	13-5	(0.9)	23-0	(0-9)	27.5	(1:2)	20.6	(1-0)	11:3	(0.9)	3.6	(0.5)	0.4	(0.1)	0.0	(0.0)
	Kyrgyzstan	37.2	(16)	26.5	(1.2)	19.2	(0.5)	105	(0.7)	4.8	(0.5)	1.3	(0.3)	0.2	(0.1)	0.0	(0.0)
	Latvia	0.4	(0.2)	2.9	(0.5)	11.6	(0.9)	27.6	(1.2)	34.1	(1.3)	19.2	[1.3]	40	(0.4)	0.2	(0.1)
	Liechtenstein	0.2	(0.3)	4.4	(1.3)	12.0	(2.1)	23.0	(3.2)	31.5	(3.1)	22.9	(2:4)	5.7	(1.4)	0.1	(0.3)
	Litheuma	1.4	(0.3)	6.9	(0.6)	18.7	(0.5)	29.3	(1.2)	27.3	(1.0)	13.5	(0.7)	2.8	(0.5)	0.2	(0.1)
	Macao-China	0.4	(0.1)	3.4	(0.3)	13.9	(0.6)	30.6	(3-6)	33-6	10:50	15.6	(8.0)	2,4	(0.3)	0.1	(0.1)
	Montenegro	11.7	(0.6)	29.2	(1.0)	26.3	(0.6)	24.8	(0.9)	12.6	(9-6)	3.9	(0-4)	0.5	(9-2)	0.0	(0.0)
	Farama	11.9	(1.8)	23.1	(2.0)	279	(2.0)	21.5	(1.8)	10.8	(1.4)	4.1	(0.7)	0.7	(0.23	0.0	(0.0)
	Peru	15.2	(1.1)	22.5	(8.2)	26.9	(1.2)	21.4	(0.4)	10.7	(0.59	2.8	(0.5)	0.4	(0.1)	0.0	(0.0)
	Qular	19.0	(2.5)	20.7	(0.5)	21.6	(0.5)	17.9	(0.5)	12.1	(0.5)	6.1	(0.3)	2.2	(0.2)	0.4	(0.1)
	Romania	5.3	(8:0)	12.2	(1.0)	22.7	(1-2)	29.5	(1.4)	21.6	(1.3)	2.4	(0.9)	1.2	(0.3)	0.1	(0.0)
	Russian Federation	3.6	(0.6)	10-1	(0.7)	22-1	(0.1)	29-7	(1.1)	22.5	(0.5)	9.5	(0.7)	2.2	(0.4)	0.3	(01)
	Serbia	3.5	60.51	19.4	10.60	243	(2.9)	393	(1.0)	22.3	(1.0)	7-2	(0-6)	1.0	19-20	0.0	(0.0)
	Shanghai-China	0.2	(0.1)	0.6	(0.2)	42	(0.5)	13.2	(0.7)	27.6	(0.9)	32.9	(0.8)	17.9	(0.8)	3.4	(0.4)
	Singapore	0.6	(02.5)	2.8	(0.2)	9.0	(0.5)	160	(2.5)	27.3	(0.0)	25,3	(0.9)	13.6	(0.7)	3.5	(0.5)
	Chinese Taipei	0.9	(0.2)	3.8	(0.4)	11.7	(0.6)	24.8	(1.1)	33.2	(1.2)	20.7	(0.5)	4.5	(0.6)	0.4	(0.2)
	Thailand	2.1	(0.4)	12.3	(8.0)	19-3	(0.9)	33-3	(1-1)	180	(2.8)	4.3	(0.5)	9.5	(0.2)	0.0	(0-0)
	Trinidad and Tobago	111.1	40,6)	14,6	(0.7)	20-0	49.85	24.1	(1.0)	18.9	(1.0)	8.7	02-53	2.4	10.30	0.3	40.11
	Tunisia	4.3	49.53	11.0	(3.9)	24.0	(1.1)	32.2	(1.1)	21.0	0.0	6.5	49.70	0.9	m-30	0.1	40.11



[Part 1/2]
Percentage of students at each proficiency level on the reading subscale reflect and evaluate

AL BH CC C D D D TH	antralia antria chigiem anada Sile cecch Republic bennark storia initand	dess tha	Level 16 or 262.04 points) S.E. (0.3) (0.7)	(from 2 less tha	ol 1b 062.04 to m 334.75 points) S.E.	tion 3		(from 4 less tha			80.18 to	(from 5		(from 63	25.61 to	Lev	el 6
AL BH CC C D D D TH	antria elgium anada fille Ceech Republic Penmark stonia	% 16 50 3.2 0.6	S.E. (0.3) (0.9)	%					points)	score		score	(option		points)		points)
AL BH CC C D D D TH	antria elgium anada fille Ceech Republic Penmark stonia	5.D 3.2 0.6	(D.3) (D.9)	4.9		~	S.E.	%	S.E.	5	S.E.	%	S.E.	%	S.E.	%	S.E.
AL BH CC C D D D TH	antria elgium iauada fiile Ceech Republic Penmark stonia	3.2			(0.4)	12.7	90.60	21.3	(0.8)	26.4	40.91	21,4	60.09	9.4	00.41	2,2	10.40
CO C D D I I I I I I I I I I I I I I I I I	anada Aile Jacch Republic Jennark Honia	0.6		12.0	(1.0)	20.2	(1.2)	23.7	(1.4)	23,1	(1.2)	12.7	(1,1)	2.3	(0.4)	0.1	(0,1)
COD THE FE G G H I CHE IS IN IN N N N N N N N N N N N N N N N	hile zech Republic Jennark stonia			6.2	(0.6)	13.1	(0.8)	20.2	(0.9)	25.0	(1.0)	22.2	(1.0)	89	(0.7)	1.1	(0.3)
CO DI FI F G C H I C I F I I I I I I I I I I I I I I I I	zech Republic Jennark Honia		(0.1)	2.8	(9.2)	9.0	(0.6)	21.1	(0.6)	30.1	(0.9)	25.2	(0.0)	9.8	(0.5)	1.5	(0.2)
D Did File File G G G H Ide File File File File File File File Fil	tenmark storia		(0.6)	9.4	(8.0)	23.3	(1.2)	32.1	(1.3)	23.7	(1.2)	8.5	(0.8)	1.0	(0.3)	0.0	(0.0)
DI FIE GO GO HI ICE IN	stonia	40	(0.5)	10:9	(1.1)	23.8	[1,3]	28.1	(1.3)	21.1	(1.3)	9.8	(D.9)	2.2	(0.3)	0.2	(0.1)
FIFT G G H Ich In		1.1	(0.4)	4.8	(0.7)	15.5	(0.9)	29.3	(1.2)	30.7	(1.0)	15.6	(1.1)	2.8	(0.5)	0.2	(0.1
FOR CO. HICKORY ST.		0.7	(0.4)	4.2	(0.7)	16.1	[1.1)	30.5	(1.4)	31.6	(1.4)	15.6	(1.3)	3.1	(0.5)	0.2	(0.2
G C H Ich In		3.8	(0.2)	2,3	(0.4)	10.1	(0.9)	23.7	(1.1)	32.4	(1,2)	23.1	(1.2)	7.1 6.2	(0.7)	0.6	(0.3
CHICKET IN N N N N N N N N N N N N N N N N N N	rance lermany	2.3	(0.4)	7.5	(0.5)	15.8	(1.6)	25.4	(1.5)	28.4	(1.4)	17.3	(1.2)	3.5	(0.7)	0.2	(0.7
H Ich In	emany	3.4	(0.4)	9.7	(1.2)	17.5	(1.4)	25.0		25.0	(1.5)	15.1	(1.3)	4.7	40.50	0.2	(U.I
In the second se		1 13	(0.9)	6.5	(1 Z) (1 C)	183	(1.4)	25.0	(1.3)	28.6	(1.5)	15.7	(1.2)	3.5	40.73	0.3	60.1
日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日	nungary celand	1.9	02.41	6.9	10.70	16.9	0.40	25.7	(1.1)	28.8	(1.3)	15.8	(1.0)	3.8	49.5)	0.2	0.1
11日 日本 日 明 ア ア ア 下 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日	reland	2.0	(0.4)	5.8	(1.1)	14.0	(1.2)	26.3	(1,1)	27.7	(1.4)	19.8	(1.4)	5.7	(0.8)	0.4	60.3
HI IN K IN N N N N N N N N N N N N N N N	resel	0.5	(1.1)	10.2	(1.0)	15.4	(1.3)	22.2	(1.2)	22.4	(1.1)	15.6	(1.1)	6.3	10.00	1.1	00.4
IN N N N N N N N N N N N N N N N N N N	lahy	4.0	(0.59	9.1	(0.5)	18.7	(0.7)	24.8	(0.7)	24.2	(0.8)	15.0	90.65	3.9	E0.59	0.3	40.1
K LI M N N N N N N N N N N N N N N N N N N	span	2.9	(0.8)	5.8	(0.0)	12.1	(1.0)	20.2	(1.2)	25.0	(1.2)	21.4	(1,3)	10.1	(0.5)	2.4	00.0
M N N N N N N N N N N N N N N N N N N N	iorea	0.5	(0.0)	1.8	(0.7)	8.0	(1.2)	19.6	(1.4)	32.5	(1.7)	26.8	(1.8)	9.6	(1.2)	1.2	60.4
M N N N N N N N N N N N N N N N N N N N	usombourg	5.3	103.63	10.2	(1.0)	18.0	(1.1)	26.1	(1.2)	26.9	(1.1)	13.8	(3.00	3.5	(0.6)	0.3	40.3
N N N R R SI	4exico	1 46	10.50	12.8	00.59	26.1	40.60	31.0	(0.7)	19.7	40,69	5.3	40.30	0.5	(0.7)	0.0	60.0
N R R SI	ietherlands	0.0	10.00	2.4	0.5	14.3	41.80	26.6	(1.7)	29.2	(1.7)	20.5	0.6	6.5	02.81	0.1	10.2
SI S	iew Zealand	1 16	(0.5)	5.2	(0.7)	13.2	ID.5%	19.9	(1-2)	23.6	(3.3)	22.0	(1.2)	11.3	(0.9)	3.1	10.5
SI S	iorway	12	10.33	5.6	(9.7)	15.7	10.59	27.5	(1.2)	28.8	(1.0)	16.5	0.0	4.5	00:65	0.5	80.1
SI S	oland	1.7	(0.5)	6.1	(0),75	167	(1.1)	28.3	(1,3)	28.2	(1,2)	15.3	(1.0)	36	00,65	0.2	40.1
SI S	ornugal	13	(0.3)	6.6	00.99	16.9	(1.2)	26.7	(1.1)	27.5	(1.3)	16.2	(1.1)	4.5	(0.5)	0.3	10.7
SI S	lovak Ropublic	35	(0.7)	11.7	(1.2)	23.9	(1.2)	27.0	(1.4)	21,1	(7.3)	10.5	(1.0)	23	(0.3)	0.1	{D.1
Si Si Si U U U U U U U U U U U U U U U U	lovenia	3.9	(0.4)	12.0	02-80	22.7	(3.1)	249	(0.0)	23.1	(1.2)	11.3	(1.0)	1.9	(0.4)	0.3	(0.5
Sie Tie U U U O O O O O O O O	pain	1 25	(0.4)	6,9	05,77	161	(1.2)	26.9	(1,1)	29.0	(1,0)	15.2	(0.9)	3.0	(0.4)	0.2	(0.1
AL AL	weden	2.4	(0.4)	6.5	(0.7)	14.5	(1.0)	25.8	(1.2)	28.3	(1.1)	16.0	(0.9)	5.7	(0.7)	0.6	80.2
O Al	witzerland	1.4	(0.5)	6.7	(0.8)	15.8	(1.1)	263	(1.3)	27.8	(1.1)	17.1	(1.1)	4.4	(0.6)	0.6	(0.3
O Al	urkey	2.1	(3-4)	9.2	(7.0)	22.8	(1.3)	29.0	(1:7)	24.2	(1-3)	10.6	(1.1)	1.9	(0.5)	0.1	(0.7
Al Al	Anited Kingdom	1.2	(0.3)	5.2	(0.6)	14.9	(1.0)	24.9	(1.0)	27.0	(1.1)	17.9	(1.1)	7.5	(0.8)	1.4	(0.4
Al Ai	hited States	0.7	(0.2)	4.5	(0.7)	13.5	(1.3)	23.6	(1.5)	26.4	(1.3)	21.6	(1.3)	8.0	(1.0)	1.6	(0) -
Al Ai	OCCD average	24	(0.1)	6.6	(0.1)	16.4	(0.5).	24.8	(0.1) (0.2)	26.5	(2.4)	17.6 Tab	10.4)	53	(0.3)	0.7	60.0
A				1			-				-		-				
A	Ibania	22.6	(1 8)	23.0	(1.7)	262	(7.3)	184	(1-0)	8.2	(1.3)	1.5	10.49	01	(0.7)	0.0	
	rgretina	14.8	(1.5)	18.2	(1.5)	26.4	(1.4)	23.6	(1.3)	11.4	(1.1)	4.8	(0.8)	0.8	(0.3)	0.1	40.1
	zerbaijan razil	24.9	(1.8)	16.3	(1.5)	29.1	(8.5)	27.4	(0.4)	15.3	(0.8)		(0.2)	1.1	(0.1)	0.1	40.1
	razu ulgaria	170	(2.0)	17.3	(1.4)	21.2	(1.5)	20.8	(1.7)	15.0	(1.6)	53	(0.9)	1.1	(0.4)	0.2	(O.)
	olombia	48	(1.0)	14.4	(1.3)	27.5	(1-2) (1-2)	10.3	(1-6)	17.1	(1-5)	5-1	(0.8)	0.8	(0.4)	0.0	10.0
	rootio	34	(0.7)	11.3	(1.1)	21.9	[1-3)	27.4	(1-0)	22.4	(1-5)	11.1	(0.9)	2.3	(0.4)	0.0	10.1
	Juhai (UAT)	6.4	(0.7)	17.4	52-80	21.5	10.70	22.6	(1.0)	20.6	(1.2)	12.4	40.73	3.6	(D.5)	0.4	10.1
	tong Kong-China	0.4	10.29	2.5	(0.5)	8.5	40.60	17.8	01(2)	52.7	(1,8)	26.2	(1.7)	82	(1.0)	0.4	10.3
	elogesia.	3.1	10.80	17.9	0.6	40.7	(1.6)	29.7	(1.8)	80	(1.25	0.6	40.30	0.0	(120)	0.0	10.0
	ordan	1 12.2	(1.3)	18.1	(1.2)	30.6	(1.4)	26.2	(1.4)	19,8	(1.3)	1.9	(0.5) (0.6)	0.2	00.31	0.0	19-6
	azakhstan	19.0	(1.2)	27.2	(1.2)	26.0	(1.5)	17.1	(1.2)	5.1	(0.9)	2.2	(D 4)	0.2	(0.1)	0.0	10.0
	yrgyzstan	48.2	(1.6)	24.9	(9.30	15.3	0.0	7.5	02.89	3.3	40.5)	9.8	(0.3)	0.1	(0.1)	0.0	40.0
	atria	0.8	0.0	5.0	33.65	12.1	0.6	31.9	0.60	30.3	(1.6)	12.7	0.61	2.0	(0.4)	0.1	(0.1
11	iechtenstein	0.2	(0.6)	7.0	(2.5)	15.6	(3.8)	24.5	(4.3)	29-8	(4.3)	18.0	(3.8)	4.9	(2-1)	0.0	
	ithuaria	2.4	(0.5)	108	(1.00	25.5	(1.1)	31.5	(1.3)	21.3	(1.3)	7.5	(0.7)	0.9	(0.3)	0.0	10.1
M	Acar-China	0.7	(0.2)	5.2	40.5)	19-1	(2.5)	33.9	(1,3)	29.2	(1,1)	10-6	(0.9)	1.2	00.20	0.0	10.0
м	4outenegro	17.5	0.0	25-8	(13)	27.1	(1.6)	19,3	(1.5)	8.0	19.69	2.0	(0.4)	0.2	(0.2)	0.0	
7:	anama	145	(2.2)	26.9	(2.3)	283	(2.3)	20.0	(2.5)	7.9	[1,29	2.1	(0.6)	0.3	(0.2)	0.0	
	tru	18.2	(1-4)	24.9	(1-3)	26-7	(1-2)	190	(1.1)	86	(0.8)	2.2	(0-5)	0.4	(0.2)	0.0	(0)
	Quiar	26.3	(0.8)	24.4	(0.7)	20.5	(9.7)	13.2	(0.5)	87	(0.5)	4.8	(0.3)	1.8	10.25	0.3	(0.7
	iomania.	84	(1-3)	163	(1.3)	26-3	(1.5)	27.5	(1.9)	16.2	(1.3)	47	(0-8)	0.5	(0.1)	0.0	00
10	Dussian Federation	5.4	(0.9)	13.8	(1.0)	261	(1.3)	29.4	(1.4)	181	(1.1)	5.9	(0.6)	1.2	(0.3)	0.1	(0.3
		5.9	(0)-80	15.5	(1.0)	27.9	(1.2)	28.3	(1.1)	16.8	(1.2)	5.1	(0:6)	0.5	(0.2)	0.0	(0) (
	erbia.	0.3	(0.1)	1.0	(0.3)	7.1	(0.9)	17.9	11.09	31.8	(13)	29-3	(1.3)	11.2	(0.9)	1.5	(0)
Si	hanghai-China		43-25	.64	62.49	11.1	(0.7)	20.5	{1.49	27.3	(0.1)	22-8	(1.2)	19.5	(0.9)	2.2	43.
	hanghai-China ingapore	0.9				152	(1.69	27.2	(1.5)	31.5	(1.8)	15.7	(1.1)	27		0.2	400
	hanghai-China ingapore Thinese Taipei	1.6	(0.5)	5.8	(0.7)										(0.7)		
	hanghai-China ingapore :hinese Taipei hailand	1.6	(0.1) (0.8)	19.3	(1-1)	33-1	(1-2)	28.2	(3-6)	12-5	(1.1)	2-7	(0-6)	0.2	(0.1)	0.0	(0.1
Ti U	hanghai-China ingapore :hinese Taipei hailand innidad and Tobago	1.6	(0.5)														

Statink @@ http://de.doi.org/10.1787/888602343285



Cirls - Proficiency levels

								Cir	ds – Profi	ciency le	veb						
		diese the	Level 1b in 262.0- points)	(from 2	d 16 62.84 to 6334.73 points)	(from 1 less that	el 1a 34.75 to a 407.47 points)	(from 6	rel 2 07.47 to a 450.16 points)	(from 6 less tha	el 3 80.18 to n 552.89 points)	less than	el 4 52.09 to 6.25.61 points)	from 6: less than score	25.61 to 098.32	above	vel 6 points)
				score %		score %		50.000		score ec		50.000		SCORE SC		score 46	
		%	S.E.	1.6	S.E.		S.E.	16.6	S.E.		S.E.	28.5	S.E.		S.E.		S.E.
Э	Australia Austria	2.6	(0.1)	6.1	(D 2)	6.1	(0.5)	21.7	(1.4)	27.2	(0.50 (1.6)	28.5 20.6	(0.6)	15.6	60.89	4,1 0.6	(0.5)
5	Selgium	17	(0.7)	7.6	(0.5)	9.4	(0.8)	17.3	(1.0)	26.8	(1.2)	27.6	(1.3)	12.5	(0.9)	1.7	(0.3)
	Canada	0.1	(0.0)	0.7	(0.1)	41	(D.3)	14.2	(0.6)	28.6	(0.6)	31.6	(0.3)	16.7	(0.6)	3.9	(0.5)
	Chile	0.6	(0.2)	5.3	(0.7)	17.9	(1.1)	32.4	(1.5)	30.1	[1-9]	11.6	(1.1)	1.6	(0.4)	0.1	(0.1)
	Czech Republic	1.1	(0.3)	46	(0.6)	13.3	(1.6)	25.2	(1:2)	29.1	D-23	19.7	(1.4)	6.4	42.6)	0.6	(0.2)
	Denmark	0.3	00.21	2.1	40,49	9.7	60.59	22.2	(1.1)	33.0	IT.39	24.3	(1,3)	7.7	60.60	0.7	00.21
	Estonia	0.1	(0.1)	1.1	(0.3)	6.5	(0.6)	19.6	(1.3)	33.3	(1.5)	28.6	(1.4)	9.4	(0.9)	1.3	60.3
	Finland	0.1	(0.1)	0.4	(0.2)	25	(0.5)	100	(0.10)	28.5	(3.1)	30.5	(1.4)	15.6	(1.2)	3.1	(0.5)
	France	1.2	(0.4)	3.4	(0.5)	9.5	(0.9)	18.7	(1.3)	286	(1.4)	25,5	(1-4)	11-4	(1-2)	1.7	(0.5
	Germany	0.7	(0.2)	3.4	(0.6)	9.2	(1.1)	20.2	(1.2)	30.3	(1.5)	26.9	(1.1)	8.5	(0.5)	0.8	(0.4
	Grece	1.0	(0.4)	2.8	[3 8]	8.7	(1.2)	20.4	(8.1)	303	(1.1)	25.2	(1.1)	9.7	(0.8)	2.0	(0.4
	Hungary	0.5	(0.3)	3.0	(0.10)	97	(1.2)	22.6	(1 6)	30.8	(1.5)	24.6	(1.3)	8.3	(0.8)	0.8	(0.3
	tceland	0.3	(0:2)	2.0	(0.4)	7.1	(0.7)	19.8	(1.1)	34.0	(1.3)	26.6	(1.0)	9.0	(0.9)	1.3	(0:5
	Ireland	0.6	(0.2)	2.5	(0.6)	8.8	(0.8)	18.6	(1.6)	30.6	(1.3)	25.9	(1.6)	11.4	(1.2)	1.6	(0.4
	teraci	1.6	(0.4)	4.6	(0.6)	10.7	(0.9)	20.7	(1.1)	27.6	(1.5)	23.1	(1.3)	9.6	(1.0)	2.0	(0.4
	Italy	1.1	(0.2)	3.4	(0.4)	10.1	(0.5)	20.7	(0.6)	30,2	(0.7)	24.7	(0.8)	8.6	(0.6)	1.2	(0.2
	Japan	0.9	(0.3)	2.0	(0.4)	5.8	(0.9)	152	(1.2)	26.9	(1-1)	28-8	(1.3)	15.5	(1.0)	5.0	(0.7
	Korea Luserebourg	0.1	(0.1)	0.3	(0.2)	13.0	(0.5)	109	(1.2)	27.A 28.7	(1.1)	37.2	(1.6)	189	(1.8)	29	(D.E
	Mexico	2.1	(0.3)	7.9	(0.6)	21.5	(0.7)	12.5	(0.7)	26.5	(0.7)	83	(1.0)	0.9	(D 5) 60.25	0.0	60.0
	Netherlands	0.1	(0.1)	0.6	(0.3)	81	(1.3)	23.0	(1.5)	29-0	(1.5)	26.9	(2.0)	11.0	(1.1)	1.1	ED 4
	New Zealand	0.2	(0.1)	1.5	(0.4)	5.7	(0.6)	14.9	(0.9)	24.4	(1.1)	26.1	(1.4)	167	(1.5)	6.5	(0.7
	Norway	0.2	(0.1)	1.5	(2.4)	6.0	(2.6)	17.5	(3.0)	32.7	(1.3)	28.6	(1.1)	11.7	(1.0)	1.6	(D.5
	Poland	0.1	(0.1)	1.7	03.40	62	(9.7)	20.3	(1.2)	343	(1.1)	27.6	(1.1)	9.0	(0.9)	1.0	(0.3
	Portugal	0.2	(0.1)	1.9	(9.1)	0.4	(0.5)	20.9	(1.3)	32.8	(1.1)	25.4	(1.2)	9.5	40.50	1.0	(D 3
	Slovak Ropublic	0.8	(0.3)	1.9	60.69	11.2	(0.8)	26.3	(1.5)	31.6	(1.5)	20.2	(1.2)	5.5	(0.7)	0.5	0.2
	Skyrnia	0.7	(0.2)	3.0	(0.4)	10.9	00.77	23.4	(1:4)	31.5	D-73	22.9	(1.7)	7.0	41.00	0.5	00.3
	Spain	1.2	69-23	3.7	60:40	9.9	(60,85)	22.8	(1.2)	32.8	(1.3)	23,1	60,81	6.1	40.40	0.5	00.1
	Sweden	0.6	(0.2)	1.8	(0.4)	5.8	(0.7)	19.2	(1.1)	30.9	(1.3)	26.6	(1.4)	11.4	(0.9)	2.6	02.5
	Switzerland	0.6	(0.2)	2.6	(0.5)	8.6	(0.0)	19.6	(0.5)	30.4	(1.3)	26.5	(1.3)	10.0	(0.9)	16	(0.5
	Turkey	0.6	(0:2)	2.6	(0.5)	11-4	(1-1)	260	(1-5)	31,1	(1.4)	21.2	(1-7)	6.1	(1-0)	1/0	(0.4
	United Kingdom	0.5	(0.1)	2.5	(0.4)	9.7	(0.7)	22.2	{7.1}	29.2	(0.1)	23.0	(1.5)	9.9	(0.0)	2.2	(0,4
	United States	0.2	(0.1)	2.0	(0.5)	8.4	(1.1)	20.7	(1.3)	28-4	(1.2)	24.7	(1.3)	12.7	(1.1)	2.8	(0.6
	OECD total	0.7	421)	2.9	(0.2)	98	(0.5)	21.3	(0.0)	289	(0.4)	240.	(0.4)	704	(0.3)	2.3	jo.
	OECD average	0.7	(0.0)	2.8	(0.1)	9.1	(0.1)	20.6	90.23	29.9	(0.2)	2501	(0.2)	10.7	(0.2)	12	400
	Albania	6.2	(0.9)	14.1	(1.5)	26.2	(1.5)	29.2	0.5	18.5	(1.7)	5.3	(0.9)	0.5	40.33	0.0	40.0
	Argentina	7.2	(1.43)	13.4	(1.2)	22.8	(1.7)	26.6	(1.4)	20.0	(1.4)	6.1	(1.1)	1.7	(0.4)	0.1	(0.1
	Azerbaijan	17.8	(1.5)	26.4	(1.4)	30.9	(1.6)	18.7	(1.3)	5.2	49.69	0.8	00.23	0.1	60.10	0.0	
	ōrazil	2.4	(0.3)	10.3	(0.7)	243	(0.0)	31.5	(0.9)	21.2	(1-1)	8.4	(0.7)	1.7	(9.3)	0.1	(0.1
	Sulgaria	5,3	(0.9)	91	(2.1)	17.4	(1.4)	25.5	(1.3)	262	(3.1)	13.8	(1.4)	4.2	(0.6)	0.5	(0.3
	Colombia	3.3	(0.7)	12.0	(8.2)	25-2	(1.5)	29.9	(1.7)	21.2	(1.3)	7.4	(8.0)	1.0	(0.3)	0.0	(0.0
	Croatia	0.6	(0.2)	3.1	(0.6)	11.5	(1.2)	23.5	(1.5)	31.0	(1.6)	22.0	(1-6)	7.5	(0.5)	0.9	(0.3
	Dubai (UAE)	0.7	60.21	4.1	(0.4)	14.0	(0.9)	24.9	(1.2)	27.9	(1.6)	19.6	[1.2]	7.6	(0.7)	0.9	(0.3
	Hong Kong-China	0.0	(0.0)	0.6	(0.2)	3.5	(0.5)	11.2	(0.9)	26.7	(1-4)	36.4	(1:4)	18.6	(1.3)	3.0	(0.5
	Indonesia	0.6	(0.5)	6.7	(1.0)	29.5	(2.0)	41.7	(1.6)	18.6	(1.8)	2.7	(0.7)	0.1	(0.1)	0.0	
	Jordan	2.8	(0.5)	8.8	(1.1)	22.0	(1.4)	33.5	(1.1)	24.4	(1.3)	7.6	(0.9)	8.0	(0.3)	0.0	80.0
	Kazakhetan	7.9	(0.3)	18.7	(1.1)	29.1	(1.4)	24.1	(1.2)	14.5	(1.1)	5.0	(0.7)	0.6	(0.2)	0.0	(0.0
	Kyrgyzstan	26.8	(1.8)	28.7	(1.6)	22.9	(1.3)	13.4	(1.0)	6.2	(0.7)	1.8	(0.3)	0.3	(0.1)	0.0	(0.0
	Latvia Liechtenstein	0.0	(0.0)	0.9	(0.4)	6.2	(0.8)	23.4	(1.5)	37.7	(1.8)	25.5	(1-6)	5.9	(0-7)	0.4	(0.2
	Liechtenstein Lithuaria	03	(0.6)	1.5	(T-2)	11.7	(3.5)	21.4	(1.5)	33.5	(1.6)	28.3	(4.5)	6.7	(2.6)	0.3	(0.6
	Macao-China	0.1	(0.1)	1.6	(0.5)	8.5	(0.5)	27.2	(0.5)	38.0	(1.2)	20.7	(1,0)	3.7	(0.4)	82	(0.1
	Montenegro	5.5	(0-7)	143	(0-3)	35.5	(1-2)	30.6	(1.3)	17.4	(1.4)	5.9	(0.6)	0.7	80.40	0.2	60.0
	Mostenegro Fanama	9.4	(1.9)	193	(2.4)	27.5	(2.3)	23.0	(8.5)	13.6	(1.8)	4.0	(1.2)	1.1	(0.4)	01	(0)
	Parama Peru	12.2	(1-1)	20.0	(1-4)	27.2	0.30	23.8	(1-1)	12.9	(1.4)	3.5	(0.7)	0.6	(0.2)	0.0	(0)
	Qatar	114	60,40	16.9	(0.7)	22.7	(0.8)	22.7	453.50	15.7	(0.6)	7.4	(0.4)	2.6	(0.3)	0.6	40.
	Romania	23	(0.4)	82	(1.1)	193	(1.4)	31.3	(1.9)	26.8	(0.6)	10.1	(1-4)	1.8	(0.3)	0.0	40.
	Russian Federation	1.0	(0.4)	6.4	62.69	15.1	(7.4)	30.1	(1.5)	267	(1.2)	13.1	(1.2)	3.2	(0.4)	0.4	60.
	Serbia	1.1	(0.3)	7.3	(0.7)	29.6	(1.2)	323	(1.4)	28.0	(1.4)	9.3	00-60	1.4	(0.3)	0.0	40.
	Shanghai-China	0.1	(0.0)	01	(0.1)	1.3	(0.3)	8.7	(9.7)	23.5	(1.6)	36.5	(1.3)	24.5	(1.2)	5.3	(0.
	Singapore	0.2	(0.1)	1.2	(0.13)	6.6	(0.4)	15.5	(2.9)	27.4	(1.4)	27.8	(1.1)	16.4	(0.9)	4.9	(0.
	Chinese Taipei	0.2	(0.1)	1.7	(0.5)	8.2	(0.9)	22.3	(1.4)	349	(1:5)	25.7	(1.6)	6.4	(0.9)	0.6	(0.
	Thailand	0.7	(0.2)	7.0	(0.5)	26-4	(1,3)	37.3	[7-30	22-3	(1-2)	5.5	(0.8)	0.7	0031	0.0	60.
	Trinidad and Tobago	5.8	(9.6)	11.1	(0.5)	17.9	(0.9)	25.9	(1-2)	22.7	(1-2)	12.2	[0.7]	4.0	(0.4)	0.5	40.
	Turisia	1-9	(0.4)	8.4	(2-9)	21-9	(1.1)	33.6	(1.3)	24.9	(1-2)	8.1	(0.6)	1-1	(0-4)	0.1	(0
	Urugury	2.5	(0.4)	8.0	(0.81	19.3	(1.2)	28.7	0.0	24.6	(1.06	13.0	(3.0)	3.5	(0,5)	0.5	(0.0



[Part 1/1]

	All students Conder differences														Perce	etiles					
	Mean scor	State devia	tion	Bo	91	G		Diffe (8 -	reace	,	da.	10	rsih	25	ah.	72	Sth	94	nth.	93	5 th
	Mean S.E	S.D.	S.E.	score	S.E.	score	SE	dif.	S.E.	Score	S.E.	Score	S.E.	Score	S.E.	Score	S.E.	Score	S.L.	Score	
Australia Austria	523 (2.5		(1.4)		(3.0)	543	(2.7)	-42	(3.1)		(3.5)	387			(2.8)		(2-8)		(3.7)	687	
Austria	463 (3.4		(2.4)	439	(4.2)	486	(4.6)	-40	66.23	270	(7.6)	313	(6.7)		(5.9)	543	(1.3)	595	(3-5)	623	(4
telgum	505 (2.5		(2.0)		(1.7)	520	(1.1)	-29	(4.5)	312	(6.6)	357	(4.7)		(4.1)	584	(2.6)	634	(2:6)	661	
Canada	535 (1.6		(1.0)	516	(1.5)	555	(1.59	-38	(2.0)		(3.0)	416	(2.8)		(2.3)	558	(8.1)	549	(2.2)	677	(2
Chile	452 (3.2		(1.8)	441	(3.7)	665	(3.6)	-24	(4.6)	310	(5.6)	342	(4.8)	396	(4.4)	512	(3.2)	559	(3.8)	586	6
Czech Republic Denmark	462 (3-1		(1.8)	475	(3-5) (2-9)	511	(3.4)	-35	(2.8)	343	(5.A) (6.8)	331	(3.6)	435	(3.5)	555	(3.2)	603	(9.4)	633	6
Denmark Estoria	503 (2.6		(1.7)	479	(3.7)	528	(2.7)	-56	(3.11	355	(5.7)	390	(4.7)	447	(3.0)	562	(3.2)	611	(3.5)	637	9
Finland	536 (2.2		(F.1)	500	(2.6)	585	(2.3)	.50	(2.2)	333	(5.69)	419	C1.44	480	0.0	597	(2.8)	642	(2.4)	565	i
france	495 (3.4		(2.6)	477	(4.3)	517	(3.5)	-44	(3.8)	301	18.21	3.69	06.75	622	(4.9)		64,00	627	(4,4)	654	+
Cermina	491 (2.8		(2.1)	470	(3.5)	518	12.59	-42	(4.1)	316	(7.6)	357	05.13	429	(6.6)	562	(2.8)	609	(2.8)	635	
Greece	489 (4.5		(3.1)	460	05.33	SIR	13.63	-57	(5.0b)	306	01.0	350	(90.25	423	(7.1)	563	(3.5)	617	(3.6)	649	4
Hungary	489 (3.3	93	(2.3)	469	(41)	509	(3-7)	-41	(4.3)	327	7.6	363	66,69	425	(4.8)	556	(3.7)	607	(3.7)	634	
Iceland	496 (1.4	94		470	(2.0)	522	(2.0)	-52	(2.9)	329	(6.5)	370	(3.8)	437	(2.6)	562	(2.3)	611	(2.8)	638	i
treland	502 (3.1	3 29	(1.5)	484	(4.2)	522	(3.5)	-38	(4.7)	330	(7.5)	371	(5.6)	439	(4.0)	572	(3.0)	624	(3.3)	652	- (
terael	483 (4.0	0 115	(2.9)	458	(5.5)	506	(4.0)	-48	(5.6)	275	0.9	324	(8.5)	410	(5.5)	566	(3.5)	623	(3.9)	655	0
Itely	482_{1.6		(1.7)		(2.5)	509	(2.2)	-53	(3.2)	258	(4.6)	342	(3.2)		(2.4)	558	(1.9)	610	(2.0)	638	
[apan	521 (3.5		(3.3)	498	(6.0)	545	(4.0)	-47	(6.5)		(11.6)	375	(8.1)	453	(5.7)	598	(3.4)	653	(3.3)	686	-
Korea	542 (3.5		(2.5)		(5-4)	565	(4.3)		(6.4)	392	(8.5)	429	(6.7)		(4.50)	602	(4.1)		H-0)	671	
Luxembourg	471 (1.1		(1-0)	450	(1-8)	492	(7.5)	-41	(2.6)	283	(4-3)	329	(3-2)	402	(2-2)	546	(1.9)	602	(2:6)	631	6
Mexico	432 (1.5		(1.2)	419	(2.1)	445	(2.0)	-27	(17)		(4.2)	318	(2.8)	3.75	(2.4)	494	(1.9)	541	(1.9)	565	6
Netherlands	510 (5.0		(1.8)	456	(>0)	524	(5.2)	-28	(2.3)	370	(5-0)	397	(5.5)	447	(6.5)	575	(4.9)	624	(3-39)	547	¢
New Zealand	531 (2.5		(2.0)	506 478	(3,8)	556	(2.8)	-51	(4.6)	343	(6.5)	385	(5.4)	458	(3.6)	609	(2.6)	666	(3.0)	696	
Norway	505 (2.7		(1.3)	469	(3.1)	533	(2.5)	-55	(2.7)	343	(4.3)	381	(3.5)	440	(3-7) (3-D)	562	(3.1)	611	(3.5)	650	
Foland	496 (2.6		(11.5)	473	(3.7)	519	(2.59	-36	(2.7)	340	(6.6)	379	(4.5)	416	(6.5)	567	(3.4)	614	(3.4)	642	1
Fortugal Slavak Republic	456 (2.5		(2.1)	417	68.13	519	13 39 F3 65	-63	66 33	797	(7.33	372	(9.3)	400	(4.2)	557	£1,00	590	(3.4)	619	
Słavenia	470 (1.3		(3.79	437	(1.45)	505	(1.6)	-07	(2.3)	296	(3.7)	135	(2.9)	400	(7.0)	544	43.00	596	(3.5)	674	1
Spain	483 (2.3		(3.2)	467	(7.6)	501	(7.5)	-34	(2.3)	312	(5.0)	356	(2.9)	425	(3.1)	550	62.20	598	(2.3)	625	
Sweden	502 (3.6		(1.7)	476	(3.25	529	13.30	.53	(2.65	326	(7.0)	377	(5.4)	442	(3.5)	571	0.5	626	(4.2)	658	
Switzerland	497 (2.3		(1.7)	476	0.15	519	(2.5)	-64	(2.7)	327	(6.1)	368	(5,40)	433	(3.7)	566	(3.3)	616	(3.7)	645	
Turkey	471 (4.0		0.0	447	64.40	500	(4.5)	-54	14.53	315	(6.3)	349	(4-6)	409	(4.7)	519	F4 50	591	(4.7)	621	ì
United Kingdom	5m 624	0 98	(1.2)	489	(7.49	516	(3.1)	-27	(4.99	318	0.7	375	(3.3)	437	63.69	572	(3.2)	628	(3.33)	661	c
United States	512 (6.0	98	(1.7)	456	(4.6)	527	(6.1)	-29	(3.6)	347	(5.7)	362	(5.1)	444	(4.2)	583	(4.8)	637	(5.5)	668	c
OfCD total	936 (5.3	102	(0 0)	478	(1.5)	516	12.35	-38	114	523	1539	Sez	(1.3)	429	(1.53	565	(1.4)	b24	(1.7)	055	74
OECD average	494 (0.5	97	(0.3)	472	(0.7)	517	(0.6)	-44	(0.7)	325	un	365	(6,0)	431	(0,7)	564	80(6)	615	(0.6)	644	0
Albania	376 (4.6		(2.3)		(5.5)	412	(4.4)	-70	(4 th)	155		233	(7.6)		(5.95)	454	(5.2)	511	(5.9)	541	- 6
Argentina	402 (4.8		(3.4)	361	(5-1)	420	(5-1)	-39	(3.6)	209	0.0		(7:9)	330	(5-1)	480	(5.8)	542	(6.1)	576	- (
Azerbaijan	335 (3-8		(2.2)	324	(4.1)	346	(4.0)	-22	(2.5)	181	(86)		(7.3)	273	(4.7)	397	(4.1)	452	(5.2)	483	(
Brazil	424 (2.7		(1.5)	408	(2.9)	437	(2.8)	-29	(1.8)	273	(3.5)	306	[3-5]	360	(3-0)	486	(3.4)	544	(4.2)	577	- (
Bulgaria	417 (7.1		(2.6)	384	(7.6)	453	(5.9)	-70	(4.9)	206	(108)		(9.9)		(103)	505	(67)	568	(5.3)	602	(
Colombia	422 (42		(2.2)	414	(4.9)	429	(4-5)	-15	(4.0)	273	07)	305	(6.3)	360	(5-6)	484	(4.6)	538	(4.0)	570	
Creatia	471 (3.5		(2.0)	442	(4.1)	503	(4.4)	-62	(2.3)	301		337	(5.7)		(4.5)	543	(3.5)	228	(3,5)	625	
Dubai (UAE)	466 (1.1 540 (2.5		(0.9)	438 520	(1.7)	495	(1.5)	-57	(2.2)	281	\$3.39	323	(2.4)	392	(2.2)	544	(2.2)	645	(2.9)	659	- 6
Hong Kong-China Indoorsia	409 (3.8		(1.9)	355	(3.7)	562 429	(3.2)	-42	(4.8)	381	(6.5)		(5.0)	161	(3.6)	455	(2.8)	497	(5.2)	521	1
Indonesia Iordan	407 (3.4		(1-9)	355	(3.9)	429	(3-9)	-60	(3.4)	236		321	(5-0)		(3.5)	455	(4.4)	525	(5-2)	521	i
Jordan Kazakhitan	173 (37		(2:2)	376	(3.7)	175	(3.7)	-63	(2.5)	236	(4.6)		(3.70	348	(6.2)	454	(3.7)	525	(5.6)	563	
Kyrzyzytun	300 (4.0		(2.5)	277	[5.7]	327	44,13	-56	(3.4)	120	45.23		(5.5)		(6.7)	372	(4.5)	448	[7,3]	495	ú
Latvia	492 (3.0		(1.7)	467	(3.4)	516	(3.2)	-00	(3.2)	353	(6.7)		(5.6)	439	(3.7)	549	(3.7)	595	(3.5)	619	ď
Liechtenstein	496 (3.2		(3.3)		(4.7)	516	(5.6)	-35	(S 2)	335	(12.3)		(12.6)		66.80	562	(8.7)	605	(7.0)	631	ú
Lithuaria	463 (2.5		(9.4)	432	(2.7)	495	(2.8)	-43	(2.7)	311	(5.2)	344	(4.1)	402	(3.4)	527	(3.0)	577	(3.9)	607	7
Macao-China	481 10.6	79	00.71	460	(1.2)	502	(1.25	-42	(1.7)	345	(2.6)	377	(2.3)	429	(1.4)	536	(1-5)	580	(1.8)	605	
Mostenegro	383 (1.5	101	(1.1)	353	(2.1)	414	(2-3)	-60	(2.5)	216	3.6	253	3-9	314	(3.4)	453	(2.5)	510	(3.1)	547	
Panama	377 (6.3		(37)	359	(6 8)	395	(7.0)	-36	(6.8)	215	(11.5)		(9.3)		(7.4)	444	(7.4)	513	(8-6)	551	
Feru	365 (42		(2.5)	355	(4.5)	361	(5.1)	-27	(4.9)	197	0.29		(5-4)	296	(4-0)	439	(5-3)	500	(6.3)	536	
Quitr	376 (1.0		(6.0)	347	(1.5)	405	(1.2)	-59	(1.2)	185	(2.2)		(1.6)		(1.7)	461	(1.9)	543	(2.5)	591	
Romenia	426 (4.5		(2.8)	401	(5-1)	451	(4.2)	-51	(4.5)	259	\$7.59		(5.8)	363	(6-C)	495	(5.2)	547	(5.4)	576	- (
Russian Federatio			(2.3)	417	(4,1)	461	(3.9)	-47	(3.1)	277	(6.6)		(6.3)	377	(4.2)	506	(3.7)	563	(4-6)	597	(
Serbia	430 (24		(1-6)	406	(3-5)	453	(2.7)	-45	(3-31)	277	52		(6.2)	369	(3-0)	494	(2.4)	544	(3-4)	572	9
Shanghai-China	557 (2.4		(1.6)	531	(2.9)	582	(2.4)	-50	(2.8)	406	(5.3)		(4.3)	502	(37.2)	616	(2.8)	661	(2.9)	686	
	529 (11		(1 1)	511	(1.8)	548	(1.6)	-37	(2.6)	355	(3.7)	394	(27)	462	(2.1)	601	(1.6)	654	(2.5)	684	- 5
Singapore	493 [2.6	1 88	(11-60)	472	(3-7)	514	(3.5)	-41	(5.2)	338	(5.3)		(3.8)	437	(3.5)	554	(3.1)	599	(3.9)	625	-
Singapore Chinese Taipei																					
Singapore Chanese Taipei Thailand	420 (21		(2.1)	396	(3.5)	439	(3-2)	-43	(3-6)	290	5.4	316	(4.4)	365	(3-6)	475	(3-0)	522	(3.7)	552	
Singapore Chinese Taipei	420 (21	117		381	(3.5) (1.9) (3.3)	439 646 644	(1.7) (1.7)	-43 -45 -36	(2.5)	290 210 210	549 549	254	(6.4) (6.5)	332	(2.7)	475 497 489	(3.0)	522 561 540	(2.9)	552 596 569	000

Note Values that are statistically significant are Indicated in bold (see Annex A3). Statistical Apple https://dx.dos.-erg/10.1767/889932383285



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		Gen	der differences in readin	g performance (be	ys – girls)					
	Olse	ned	Within	school	After accounting for the programme le and programme destination in which students are enrolled					
	Score dif.	S.E.	Score dff.	S.E.	Score dif.	S.E.				
Australia	-37	(3.1)	-37	(2.5)	-35	(2.4)				
Australia Austria	-41	(5.5)	-20	(3.4)	-20	(3.4)				
Belgium	-27	(4.4)	-17	(2.3)	-16	(2.0)				
Canada	-34	(3.9)	-34	(2.1)	-33	(2.1)				
Chile	-22 -48	(4.1)	-18 -33	(3.1)	-17	(3.1)				
Czech Republic Denmark	-48	(41)	-33	(2.8)	-32	(2.7)				
Denmark	-29	(2.5)	-28	(2.9)	-28	(3.2)				
Finland	-44	(23)	-42	(2.7)	-91	(2.7)				
France	-03	(2.3)	-37	(3.5)	-36	(3.5)				
Germany	-40	63.50	-79	(2.5)	-29	(2.5)				
Greece	.47	(4.3)	-34	(3.2)	-34	(3.2)				
Hungary	-38	(1,60	-22	(2.6)	-22	(2.5)				
Iceland	-44	(2.8)	-44	(5.4)	-44	(3-4)				
Ireland	-39	(5.7)	-35	(5.7)	-34	(4.8)				
Israel	-42	(5.2)	-29	(3-8)	-28	(3.8)				
Italy	-46	(2.8)	-26	(1.7)	-26	(1.7)				
Japan	-39	(6-8)	-28	(2.8)	-28	(2.8)				
Koeea	-35	(5.9)	-44	(5.9)	-43	(5.8)				
Luxembourg	-39	(2.3)	-35	(3.1)	-32	(2.7)				
Mexico	-25	(1.6)	-21	(1.9)	-21	(1.9)				
Netherlands	-24	(2.4)	-19	(1.5)	-19	(1.0)				
New Zealand	-46	(4.3)	-50	(4.9)	-49	(5.0)				
Norway	-47	(2.9)	-47	(3.5)	-47	(3.5)				
Poland	-50	(2.5)	-51	(3.5)	-51	(3.5)				
Portugal	-38	(2.4)	-32	(2.6)	-21	(2.3)				
Slovak Republic	-51	(3.5)	-42	(3.0)	-40	(3.0)				
Slovenia	-55	(2.3)	-31	(2.3)	-30	(2.4)				
Spain	-29	(2.0)	-29	(1.2)	-29	(1.7)				
Sweden Switzerland	-46 -39	(2.7)	-47 -31	(3.2)	-46 -31	(3-1)				
Switzerland	-41	(2.5)	-32	(2.5)	-31	(2.4)				
United Kingdom	-43	6.9	-32	(3.0)	-32	(3.4)				
United States	-25	0.6	-27	(6.3)	-25	(6.7)				
OECD total	-33	0.2	-29	0.0	-29	40.27				
OECD average	-19	(0.6)	-33	(0.5)/	-32	(0.5)				
Albania	-62	(4.4)	-58	(4.0)	-37	(4.0)				
Argentina	-37	(3.8)	-30	(3.2)	-27	(3.1)				
Azerbaijan	-24	(2.4)	-22	(2.5)	-23	(2.4)				
Brazil	-29	(1.7)	-27	(2.0)	-25	(2.0)				
Bulgaria Colombia	-61	(4.7)	-46	(3.9)	-45 -6	(3.9)				
Crostia	-51	(5.8)	-9	(3.2)	-10	(2.8)				
Duhei (UAI)	-31	(2.3)	-33	(3.3)	-26	(5.2)				
Hong Kong-China	-31	(6,4)	-26	(2.9)	-26	(3.2)				
Indonesia	-37	(3.3)	-26	(1.8)	-28	(1.8)				
lorden	-57	06.20	-43	(10.0)	-43	(10.0)				
Kazakhstan	43	(2.7)	-41	(2.6)	-40	(2.6)				
Kyrgyzntan	-53	(2.7)	-51	(2LD)	-50	(3.0)				
Latvia	-47	(3.2)	-41	(2.9)	-44	(2.9)				
Liechtenstein	.32	(7.1)	-21	(5.8)	-23	(5.7)				
Lithuenia	-59	(2.4)	-52	(2.8)	-52	(2.8)				
Macao-China	-34	(1,7)	-21	(2.1)	-17	(1.8)				
Montenegro	-53	(2.6)	-40	(3.5)	-36	(2.9)				
Penama	-33	(6.7)	-19	(4.9)	-18	(4.8)				
Peru	-22	(4.7)	-11	(3.3)	-8	(3.2)				
Qutar	-50	(1,8)	-36	(6.7)	-33	(5.5)				
Romania	-43	(4.4)	-14	(3.9)	-14	(3.9)				
Russian Federation	-45	(2.7)	-41	(2.6)	-38	(2.6)				
Serbia	-39	(3.0)	-26	(2.7)	-22	(2.4)				
Shanghai-China	-40	(2.9)	-33	(2.4)	-33	(2.4)				
	-31	(2.3)	-26	(2.4)	-27	(2-4)				
Singapore				(1.6)		(4.6)				
Singapore Chinese Taiper	-37	(5.3)	-48		-48					
Singapore Chinese Taipes Thailand	-38	(1.8)	-36	(1.0)	-35	(3.0)				
Singapore Chinese Taiper										

Programme level infricates whether the student is in the lower (SCED Level 2) or upper (SCED Level 3) secondary programme. Programme designation indicates the infrinstation of the study programme. A, B or C (post Annex A) (SCED Level 3) secondary programme. Programme designation indicates SCRAIM (Egg) in http://dx.doi.org/10.1107/1980002002003



[Part 1/1]
Table I.2.14 Percentage of students at each proficiency level on the reading subscale continuous texts

_	Table I.2.14	Perce	ntage	of stu	dents a	rt each	profi	ciency	level o	on the	readin	g subs	cale o	ontinu	ous te.	ĸts		
									Proficie	ncy levels								
			Level 1h Level 1a Level 2 Level 3 Level 4 low Level 1h (from 202.04 to (from 334.75 to (from 407.47 to (from 480.18 to (from 552.89 to												el 5			
		Jess the	Level 1b n 262,04 points)	less that	n2.04 to n 334.75 points0	less than	34.73 to 6 607.47 points)	less tha	87,47 to n 480,18 points?	(from 6 less that score	n 552.89	(from SS2.89 to less than 625.61 score points)		less that	25.61 to 698.32 points)	(above 698.32 score points)		
		5016	S.L.	%	S.L.	56.000	S.L.	%	S.L.	%	S.C.	5	S.C.	%	S.E.	%	S.L.	
A	Australia	1.1	(0.1)	3.5	(0.3)	10.4	(0.5)	30.6	(0.4)	27.3	(0.0)	23.4	(0.5)	11.0	(0.5)	2.4	(0.4)	
000	Austria	1.9	(0.4)	7.9	(0.7)	17.9	(0.5)	24.5	(0.9)	25.8	(1.0)	17.1	(0.8)	4.6	(0.6)	0.4	(0.1)	
	Belgium	1.3	(0.3)	4.7	(0.5)	12.5	(0,6)	20.6	(0,5)	25.4	(0.7)	24.3	(0.7)	10.2	(0.5)	1.1	(0.2)	
	Canada Chile	0.4	(0.1)	2.4	(0.2)	8.3 20.8	(0.4)	20 2 31.6	(1.0)	28.9	(0.7)	25.9 10.3	(0.7)	11.5	(0.5)	2.4 0.1	(0.2)	
	Czech Republic	0.7	(0.2)	5.4	(67.61	17.0	(0.9)	27.3	(1.0)	27.4	(1.0)	16.6	(0.9)	5.3	(0.3)	0.6	(0.2)	
	Denmark	0.5	(0.1)	3.3	(0.4)	11.9	(0.5)	25.4	(3.9)	32.4	60.85	20.8	(0.59) (0.59)	5.4	(0.5)	0.5	(0.1)	
	Estenia	0.3	(0.2)	23	(0.4)		10.91	26.0	(1.3)	34.8	(1.1)	20.0	(0.9)	47	(0.5)	0.4	(0.2)	
	tinkad	0.2	(0.1)	1.5	(0.2)	6.4	(0.5)	17.0	(0.5)	30.2	(0.8)	302	(0.8)	13.1	(0.7)	1.4	(0.2)	
	France	2.7	(0.5)	6.2	(0.6)	12.5	(0.9)	21.4	(1.2)	25.9	(1.1)	21.4	(1.0)	8.5	(8.0)	1.4	(0.4)	
	Germany	0.9	(0.2)	4.7	(0.4)	12.9	(0.9)	22.9	(1.3)	28.4	(1.2)	22.8	(P.9)	67	(0.5)	0.6	(0.2)	
	Greece	14	(0.4)	5.6	(0.5)	14.5	(1.0)	24.3	(0.9)	27.8	(1-0)	19.5	(1.0)	6.1	(0.6)	0.9	(0.2)	
	Hungary	0.5	(0.2)	41	(0.7)	12.4	(0.9)	23.5	(1.1)	301	(1.0)	21.7	(1.0)	6,7	(0.7)	0.6	(0.2)	
	treland	18	(0.4)	42	(0.5)	11.8	(0.7)	22.6	(0.7)	29.8	40.50	21.6	(1,0)	7.4	60.85	0.8	(0.2)	
	breel	3.7	(0.4)	7.5	(0.3)	14.6	(0.7)	22.0	(1.1)	25.7	(0.9)	18.5	(1.0)	6.6	(0.5)	1.1	(0.2)	
	italy	1.4	(0.2)	5.2	40,31	13.9	(0.5)	23,1	(0,5)	28.8	40.50	21,0	(0.5)	5,0	00,31	0.5	(0.1)	
	Japan	1.7	(0.4)	3.5	(0.6)	8.6	(0.7)	17.9	(0.7)	27 1	(0.9)	26.7	(0.9)	12.2	(3.0)	2.4	(0.3)	
	Korea	0.3	(0.1)	1.0	(0.1)	5.1	(0.7)	15.5	(1.0)	32.5	(1.2)	32.7	(1.2)	11.9	(1.0)	1.0	(0.2)	
	Luxembourg	3.3	(0.3)	7.8	(0.5)	15.4	(0.9)	23.8	(0.8)	26.5	(0.7)	17.4	(0.9)	5.3	(0.5)	0.5	(0.1)	
	Mexico	3.7	(0.4)	11.4	(0.5)	243	(0.6)	32.7	(0.7)	21.8	(0.6)	5.6	(0.3)	0.4	(0.1)	0.0	(0.0)	
	Netherlands	0.1	(0.1)	2.0	(0.3)	12-3	(1.3)	25.5	(1.5)	27.7	(1.1)	22-8	(1.7)	86	(0.9)	8.0	(0.2)	
	New Zealand	1,2	(0.2)	3.7	(0.4)	10.7	(0.6)	19.4	(0.5)	25.4	(8.0)	23.6	(0.40)	12.8	(0.7)	3.0	(0.4)	
	Norway Poland	0.8	(0.2)	3.6	(0.4) (6.4)	11.2	(0.6) (0.6)	22.4	(0.7)	29.4 30.9	(0.9)	22.8	(1.0)	8.5	(0.6)	13	(0.2)	
	Foland Portugal	0.7	(0.2)	4.2	(0.4)	11.7	40.50	26.0	(0.9)	30.6	(0.8)	22.0	(1.0)	7.2	(0.6)	0.6	(0.2)	
	Novek Republic	0.9	(0.2)	5.1	(0.4)	16.7	40.95	27.3	(2.9)	28.7	(1.1)	17.2	(1.1)	62	(0.4)	0.5	40.29	
	Sevena	0.9	(0.1)	5.6	(0.3)	15.3	40.6)	24.8	(0.5)	28.2	(0.8)	19.1	(0.6)	5.6	(0.6)	0.4	(0.2)	
	Sozie	1,3	(0.2)	48	(0.4)	13.2	40.69	25.8	6.6	31.7	(0.7)	167	(0.6)	41	(0.3)	0.3	40.13	
	Sweden	1.7	(0.3)	43	(0.4)	11.5	(9-8)	23.3	(1.1)	28.9	(1.1)	203	[1.0]	8.6	00-6)	1.6	(0.3)	
	Switzerland	0.8	(D 1)	45	(0.4)	12.5	(0.7)	23.0	(0.5)	29.0	(0.0)	22.2	(0.9)	7.2	(0.7)	0.9	(0.2)	
	Turkey	0.9	(0.2)	5.2	(0.4)	18.3	[1.0)	31.3	(1.4)	28.9	(8.2)	13-2	(1.2)	2.1	(0.5)	0.1	(0.1)	
	United Kingdom	1.1	(0.2)	4.5	(0.4)	14.2	(0.7)	25.0	(0.8)	27.9	(0.7)	189	(0.9)	7.2	(0.5)	1.2	(0.2)	
	United States	0.8	(0.2)	4.3	(0.4)	13.6	(0.8)	23.7	(0.9)	26.5	(0.8)	200	(0.9)	9.1	(0.9)	1.9	(0.3)	
1	OECD total OECD average	13	(0.1)	5.0 4.7)	10.71	13,8	(0.3)	241	90.71 (0.71	283	(0.5) (0.2)	19.6	(0,7)	7.4	(0.3)	1.0	(0.1)	
	Albania	10.5	43.05	17.4	0.0	25.7	0.2	25.7	d1 29	15.9	0.0	4.4	40.75	0.3	(0.1)	0.0	40,01	
Partners	Argentina	10.8	(1.1)	15.4	(1.0)	25.6	(1.3)	25.4	(1.0)	16.5	(1.1)	6.3	(0.8)	1.1	E0.33	0.0	60.11	
ž	Azerbaijan	10.0	47.00	26.2	(1.1)	36.2	67.29	21.6	(1.3)	5.4	(0.7)	0.5	40.23	0.0	(0.0)	0.0	0	
	Brazil	5.5	(0.4)	15.1	(0.7)	27.8	(0.8)	27.1	(0.7)	16.6	(0.7)	6.5	(0.5)	1.4	(0.3)	0.1	(0.1)	
	Bulgaria	8.2	(7.1)	12.4	(1.2)	19.6	(114)	22.9	(1.2)	21.5	(1.3)	11.9	(1,3)	3.1	(0.7)	0.4	(0.1)	
	Colombia	4.1	(0.6)	13.8	(1.1)	27.9	(1.2)	31.0	(1.1)	17.9	(1.1)	4.7	(9.5)	0.6	(0.2)	0.0	(0.0)	
	Croatia	0.9	(0.2)	5.4	(0.5)	15,7	(1.0)	27.1	(1.1)	29.5	(13)	17.3	10.99	3.7	(0.4)	0.3	(0.1)	
	Dubri (LME)	3.9	(0.3)	9.1	(0.5)	17.7	(0.7)	24.9	(0.7)	23.8	(0.7)	14.7	(0.6)	52	(0.4)	0.7	(0.2)	
	Hong Kong-China Indonesia	0.3	(0.1)	13.3	(0.3)	16.2	(0.5)	34.4	(0.8)	29.4	(1.3)	1.4	(1.0)	0.0	(0.0)	2.0	(0.1)	
	Indonesia Jerdan	6.0	(0.6)	119	(0.7)	26.3	(0.7)	32.3	(0.8)	203	(1.4)	48	40.5)	03	(0.1)	0.0	10.00	
	Kazakhstan	5.9	(0.0)	18.1	(1.1)	308	(1.0)	26.5	(1-1)	14.4	(1.1)	4.0	(0.6)	0.3	(0.1)	0.0	10.00	
	Kyrgyzstan	25.2	(1.2)	28.9	(1.6)	24.5	(0.9)	12.7	(0.6)	4.6	(0.5)	1.1	+0.23	0.1	(0.0)	0.0	(0.0)	
	Latvia	0.3	(0.2)	3.4	(3.4)	13-8	(1.0)	293	(1.3)	33.1	(1.1)	17.3	(1-0)	2.7	(0.4)	0.1	(0.0)	
	Liechtenstein	0.0	c	3.9	(1.3)	13.9	(2.8)	23.2	(2.9)	32.1	(3.4)	22.1	(3.4)	4.2	(1.7)	0.5	(0.6)	
	Lithuania	0.9	(0.2)	5.3	(0.6)	17.9	(0.7)	29.4	(0.9)	29.1	(0.9)	14.4	(8.0)	2.9	(0.4)	0.2	(0.1)	
	Maczo-China	0.3	(0.1)	3.1	(0.3)	12-8	(0.4)	28.9	(0.7)	33.6	(0.8)	17.4	(0.8)	3.7	(0.4)	0.2	(0.1)	
	Mentenegro Panama	13.4	(0.4)	15.5	(1.8)	26-4 27.8	(0.9)	28.6	(1.4)	17.2	(1-0)	5.7 3.5	(0.6)	0.8	(0-2)	0.0	(0.1)	
	Pena Pena	11.5	(0.7)	21.3	(0.76	27.8	(1.1)	22.7	(1.0)	11.1	(0.0)	3.0	(0.5)	0.5	(0.2)	0.0	(0.0)	
		180	(0.4)	21.0	(0.4)	22.2	(0.5)	18.9	(0.5)	12.2	(0.4)	5.6	(0.5)	1.7	(0.2)	0.3	(0.1)	
	Outer			12-7	(1,1)	23.5	(1.2)	31-0	(1.3)	21.2	(1.2)	6.2	(0.7)	0.7	(0.2)	0.0	[0.0]	
	Qutar Romania	4.7	(0.7)					31.7	(1,0)	27.1	40.50	114	(0.7)	2.8	60.45	0.3	(0.1)	
	Romania Russian Federation	1.4	(0.7)	6.5	(0.8)	18.9	(1.7)											
	Romania Russian Federation Serbia	1.4	(0.3)	6-S 7-9	(0.7)	22.3	(1.3)	33.7	(1-2)	25.6	10.99	7.8	(0.7)	0.9	(0.2)	0.1	(0.0)	
	Romania Russian Federation Serbia Shanghai-China	1.4 1.8 0.1	(0.3) (0.3) (0.1)	6-S 7-9 0-S	(0.7)	22.3 3.1	(1.3)	33.7 11.9	(1.2)	25.6 26.5	10.9)	7.8 34.2	(1.0)	09 201	(1.0)	3.6	(0.4)	
	Romania Sussian Federation Serbia Shanghai-China Singapore	1,4 18 61 64	(0.3) (0.3) (0.1) (0.1)	6.5 7.9 0.5 3.3	(0.7) (0.1) (0.3)	22.3 3.1 9.9	(1-3) (0-4) (0.5)	33.7 11.9 18.8	(1-2) (0.7) (0.7)	25.6 26.5 27.2	(0.9) (1.1) (0.7)	7.8 34.2 25.0	(0.7) (1.0) (1.0)	09 201 12.4	(0.2) (1.0) (0.6)	3.6 2.8	(0.4)	
	Romania Russian Federation Serbia Shanghai-China Singapore Chinese Taipei	1.4 18 61 64 6.7	(0.3) (0.3) (0.1) (0.1) (0.2)	6.5 7.9 0.5 3.3 3.8	(0.7) (0.1) (0.3) (0.4)	22.3 3.1 9.9 11.3	(0.4) (0.5) (0.7)	33.7 11.9 18.8 24.1	(1-2) (0.7) (0.7) (1-0)	25.6 26.5 27.2 33.0	(0.9) (1.1) (0.7) (1.2)	7.8 34.2 25.0 21.2	(0.7) (1.0) (1.0) (0.9)	09 201 12.4 5.2	(0.2) (1.0) (0.6) (0.7)	3.6 2.8 0.6	(0.4) (0.3) (0.2)	
	Romania Russian Federation Serbia Shanghai-China Singapore Chinese Taipei Thailand	1.4 18 61 64 6.7 1-3	(0.3) (0.3) (0.1) (0.1) (0.2) (0.3)	6-5 7-9 0-5 3.3 3-8 10-2	(0.7) (0.1) (0.3) (0.4) (0.8)	22.3 3.1 9.9 11.3 30.5	(0.5) (0.7) (0.7) (0.7)	33.7 11.9 18.8 24.1 36.3	(1-2) (0.7) (0.7) (1-0) (1-4)	25.6 26.5 27.2 33.0 17.9	(0.9) (1.1) (0.7) (1.2) (1.0)	7.8 34.2 25.0 21.2 3.6	(0.7) (1.0) (1.0) (0.9) (0.6)	09 201 12.4 5.2 03	(0.2) (1.0) (0.6) (0.7) (0.2)	3.6 2.8 0.6 0.0	(0.4) (0.3) (0.2) (0.0)	
	Romania Russian Federation Serbia Shanghai-China Singapore Chinese Taipei	1.4 18 61 64 6.7	(0.3) (0.3) (0.1) (0.1) (0.2)	6.5 7.9 0.5 3.3 3.8	(0.7) (0.1) (0.3) (0.4)	22.3 3.1 9.9 11.3	(0.4) (0.5) (0.7)	33.7 11.9 18.8 24.1	(1-2) (0.7) (0.7) (1-0)	25.6 26.5 27.2 33.0	(0.9) (1.1) (0.7) (1.2)	7.8 34.2 25.0 21.2	(0.7) (1.0) (1.0) (0.9)	09 201 12.4 5.2	(0.2) (1.0) (0.6) (0.7)	3.6 2.8 0.6	(0.4) (0.3) (0.2)	

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Part 1/21 Percent ts at each proficiency level on the reading subscale continuous text Table 1.2.15 by gender

Sovs - Profeciency levels Level 16 Level 1a Level 3 Level 4 Level 5 am 334.75 to m 407.47 to om 450.18 to (from 552.89 to m 625.61 to m 262.04 few than 262.04 en 334.73 [ess than 407.47] on them 400.10 less than 552.89 less than 625.61 less th an 658,33 score points) score points) score points) score points) S.E Australia Austria delgum 5.8 Canada Chile 2.5 Czech Republic Denmark 283 Estoria Fieland Germa (0.7) 26,0 Grece Humean (15) 267 0.58 0.3 tceland Ireland teraci Haly Ispan Korea 344 (1.10) Luxerebourg Mexico 180 4.1 Netherland New Zealand 2.0 (0.5) 5.8 14.1 (1.4) 24.7 20.3 Norway Poland 29.4 28.2 16.3 Portugal Slovak Republic 22.6 30.1 (I.3) 23.8 (0.1) Slovenia Spain Sweden Switzerla Turkey United Kingdo 6.0 0.0 1.0 (0.2) United States 255 OFCD total OFCD average Albania (1.3) Arcenting Azerbatian 17.4 deazil **Sulsaria** Colombia Croatia Dubai (UAT) Hong Kong-China 84 18.8 31.8 Endonesia Jordan 9,8 288 30.3 Kazakhetan Kyrgyzstan 29.4 17.8 H-D Liechtens Lithuspia 08 Maran-Chin Montenegro Fanama Qatar Romani Dunian Federatu (0.7) Serbia Shanghai-China 5.0 Singapore Chinese Taipei Thailand Trinidad and Tol Turisia

(0.1)

^(0.5) Uruguay Several and \$500000 heren / May don, com/10, 1797/999917747199



[Part 2/2] Table 1.2.15 by gender

-	Table 1.2.15	by ge	ilidei					_								_	
								Cir	ds – Profi	ciency le	veis						
		Below Level 1b (few then 262.04 score points)		(from 262.04 to flow than 334.75 score points)		(from 334.75 to less than 407.47 score points)		(from 4 less tha	rel 2 07.47 to a 400.10 points)	(from 4 less tha	el 3 80.18 to 8 552.89 points)	(from 552.89 to less than 625.61 score points)		less tha	25.61 to	Level 6 (above 698.32 score points)	
		%	S.E.	%	S.E.	- %	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
A	Australia	0.4	(0.1)	2.2	(0.3)	7.5	(0.5)	18.7	(0.8)	28.2	(0.50	26.5	(0.8)	13.5	(0.7)	3.0	(0.4)
5	Austria Belgum	0.9	(0.4)	3.5	(0.9)	140	(1.3)	23.3	(1.3)	26.1	(1.0)	21.3	(1.5)	11.9	(0.9)	1,4	(D.2) (D.3)
	Carada	0.0	(0.3)	1.1	(0.7)	5.3	(0.4)	17.4	(0.7)	29.3	(0.7)	28.9	(1.1)	16.6	(0.7)	2.2	(D.3)
	Chile	0.1	(0.1)	49	(0.2)	18.1	(1.3)	31.8	(1.6)	29.3	(1.49	12.4	(1.1)	2.5	(0.4)	0.1	(0.1)
	Czech Republic	0.2	(0.1)	2.7	(0.6)	10.9	(1.1)	24.2	(1.2)	30.7	[1.29	22.1	(1.1)	8.3	40.71	0.6	(0.2)
	Denmark	0.3	(0.1)	20	(0.4)	9.0	(0.8)	22.5	(1.2)	33.9	(13)	24.6	(120	7.1	(0.7)	0.7	(0.3)
	Estoma	0.0	(0.0)	0.9	(0.4)	6.3	(1.0)	23.4	(1.5)	37.2	(3.3)	26.5	(1.3)	7.0	(0.8)	0.7	(0.3)
	Finland	0.1	(0.1)	0.5	(0.2)	25	(0.4)	10.6	(0.9)	28.2	(1.2)	36.9	(1.3)	189	(1.1)	2.3	(0.4)
	France	1.5	(0.5)	3.9	(0.6)	9.8	(0.9)	19.6	(1.3)	27.5	(1.3)	25.1	(1.3)	10.6	(1.1)	2.0	(0.6)
	Germany Greece	0.3	(0.2)	3.2	(0.6)	9.5	(0.1)	19.6	(1.5)	29.4	(1.5)	27.3	(1.3)	9.7	(0.0)	1.0	(0.3)
	Hungary	0.4	(0.2)	72	(0.6)	10.3	(1.1)	21.5	(0.1)	31.5	0.49	24.0	(1.5)	93	(1.3)	0.9	(0.4)
	treland	0.5	(0.2)	19	(0.4)	7.4	(0.8)	19.1	(1.1)	33.0	(1.3)	25.6	(1.3)	10.4	(1.0)	2.0	(0.5)
	Incland	0.6	42.13	24	(0.6)	5.0	(0.0)	20.7	(1.2)	30.7	0.30	25.6	(1.5)	9.9	0.0	1.3	62.41
	teracl	1.6	10.41	4.7	(9.7)	12.1	62.95	21.7	17.33	28.4	(1.2)	22.0	(1.1)	8.1	(0.7)	1.4	(0.3)
	Italy	0,5	(0.1)	2.6	(0.3)	9.0	(0.5)	20.8	(0.7)	318	(0.6)	26.3	(0.7)	8.3	(0.5)	0.5	(0.2)
	Japan	0.8	(0.3)	1.8	(0.4)	5.8	(0.7)	15.7	(1.2)		(1.2)	30.4	(1.2)	14.9	(1.1)	3.0	(0.5)
	Korea	0,1	(0.1)	0.2	(0.1)	2.5	(0.4)	11.1	(1.2)	30.1	(1.4)	38.5	(1,5)	16.0	(1.6)	1.5	(0.4)
	Lusembourg	1.5	(0.4)	4.9	(0.6)	12.4	(1.2)	23.9	(1.1)	28.5	(1.0)	21.1	(1.2)	6.9	(0.7)	8.7	(0.2)
	Mexico	2.4	(0.4)	8.8	(0,5)	216	(0.5)	34.0	(0.5)	25.5	40.7)	7.1	(0.4)	0.5	(0.1)	0.0	(0.0)
	Netherlands	01	(0.1)	10	(0.4)	9.8	(1.3)	23.2	(1.6)	28-5	(1.6)	258	(2.0)	103	(1.1)	1.1	(D 3)
	New Zealand Norway	0.3	(0.1)	1.5	(0.4)	7.3	(0.7)	17.4	(0.1)	26.1	(1.1)	27.4	(1.1)	15.9	(1.2)	43	(0.6) (0.4)
	Poland	0.1	(0.1)	10	00:33	61	(0.7)	20.3	(1.1)	33.5	(1,4)	27.6	(1,3)	10.2	40.80	1.3	(0.3)
	Portugal	0.7	(0.1)	1.9	49.40	87	0.0	23.4	(1.1)	33.9	[7.39	23.8	(1.2)	7.6	40.73	0.6	(0.2)
	Slovak Republic	0.4	(0.3)	2.1	(0.5)	2.2	10.99	24.5	(1.3)	31.5	(1.5)	22.5	(1.4)	6.1	60.80	0.9	(0.3)
	Slovenia	0.2	(0.1)	2.0	(0.3)	8.6	(0.7)	23.0	(1.0)	32.2	(1.2)	24.7	(1.5)	8.8	(1.1)	0.5	(0.3)
	Spain	0.8	(0:2)	3.1	10.49	10.4	(9.7)	23.7	(0.5)	33.6	(0.9)	22.4	(0.9)	5.4	(0.5)	0.5	(0.1)
	Sweden	0.7	(0.3)	2.0	(0.5)	2.7	(0.5)	20.9	(1.3)	30.8	(1.3)	24.3	(1.4)	11.3	(140)	2.3	(0.4)
	Switzerland	0.3	(0.1)	3.0	(0.4)	8.4	(0.7)	20,0	80.55	30.2	(1.3)	27.2	(1.1)	9.7	(0.8)	1.2	(0.3)
	Turkey	0.6	(0-2)	2.2	(0.5)	11.7	(1-2)	30.2	(1.6)	33.8	(1.6)	18.0	(1:6)	3.5	(9.7)	0.2	(0.1)
	United Kingdom United States	0,5	(0.2)	2.9	(0.4)	11.0	(0.8)	21.3	(1.2)	29.9	(1.0)	21.4	(1.2)	10.6	(1.1)	1.5	(0.3)
	OECD total	0.7	40.13	32	(0.7)	10.7	(0.5)	22.7	10.40	29.1	(0).40	22.9	(0.4)	92	10.37	10	10.31
	OECD average	0.5	17,69	2.9	di II	9.4	(9.2)	21.5	19.2)	303	(0.2)	24.7	10.2)	9.5	(0.2)	1.4	(III)
¢	Albania	4.3	(0.0)	11.4	(1.2)	23 8	(1.5)	30.9	(1,0)	22.2	(1.5)	6.9	(1 0)	0.5	(0.2)	DD	(0.0)
Partners	Argentina	2.1	(1.0)	12.9	(1.0)	23.6	(1.6)	27.4	(1.5)	19.1	(1.5)	8.0	(1.2)	1.6	(0.4)	0.1	(0.1)
è	Azerbaijan	6.6	(1.0)	22.1	(1.5)	37.8	(16)	26.0	(1.7)	6.8	(0.9)	0.7	(0.2)	0.0	(0.0)	0.0	c
	Grazil	3.3	(0.3)	11.7	(0.7)	26.6	(0.5)	29.3	(0.9)	19.5	10-10	7.8	(0.6)	1.7	(0-3)	0.2	(0.1)
	Sulgaria Colombia	3.4	(D.6)	12.6	(1.0)	166	(1.5)	24.7	(1.8)	25.7	[1.7)	163	(1.8)	48	(10)	0.6	(0.2)
	Croatia	33	(0-0)	12-6	(8-1)	26-9	(1.1)	24.4	(1.7)	341	(1.4)	23.5	(0.6)	6.1	(0.2) (0.8)	0.5	(0.1)
	Dubai (UAI)	0.2	(0.1)	41	(0.4)	14.4	(0.7)	26.5	(1.1)	27.5	(1.1)	18.5	(1.0)	6.7	(0.8)	1.1	(0.2)
	Hong Kong-China	0.0	(0.1)	10	40.10	33	(0.7)	12.9	(1.3)	26.6	(1.2)	35.4	(1.3)	17.9	(1.1)	3.0	10.40
	Infoncsia	0.6	(0.3)	83	(1.1)	39.9	(2.0)	49.1	0.81	17.9	(1.60	2.2	(0.5)	0.1	60.11	0.0	c
	Jordan	2.1	(0.4)	7.2	(0.80	198	(1.3)	34.3	(1.3)	28.5	(1.5)	7.6	(0.9)	9.6	(0.2)	0.0	c
	Kazakhetan	2.8	(0.5)	11.9	(1.1)	29.1	(1.4)	31.2	(1.0)	18.8	(1.3)	5.7	(0.9)	0.5	(0.2)	0.0	(0.1)
	Kyrgyzstan	17.2	(1.3)	28.5	(1.4)	29.9	(1.0	16.5	(0.1)	6.2	(0.8)	1.6	(0.3)	01	(0.1)	0.0	(0.0)
	Latvia	0.0	(0-1)	1.1	(0.4)	2.7	(1,0)	25.7	(1.5)	37.4	(1-4)	23-8	(1.5)	4.1	(0-6)	0.1	(0-1)
	Liechtenstein Lithuania	0.0	(0.1)	3.3	(1.5) (0.4)	9.4	(3.3)	19.8	(3.3)	33.0	[4:39	27.4	(4-4)	5.0	(3.0)	0.7	(0.9)
	Lithuania Macao-China	6.1	(0.1)	1.4	(0.4)	100	(0.9)	25.8	(1.1)	35.0	(1.2)	21.3	(1.1)	5.0	(0.7)	0.3	(D 2) (D 1)
	Macao-China Montenegro	2.1	(0-1)	100	(0.7)	22.8	(1.0)	12.1	(1-1)	23.2	(1.4)	8.3	(1.0)	1.3	19.33	0.3	(0-1)
	Montenego Fanama	10.1	(1.9)	18.9	(2.3)	27.2	(2.1)	23.9	(8.1)	13.5	(1.7)	5.3	(1.0)	0.9	(0.3)	0.0	(0 1)
	Feru	11-2	(1-0)	187	(3-1)	27-2	(1-5)	248	(9-3)	13.7	(1.3)	3.7	02-73	0.6	(0.2)	0.0	00.00
	Qutar	10.9	(0.5)	17.6	(0.8)	22.6	(0.6)	23.4	(0.7)	15.8	(0.8)	7.0	(0.5)	2.1	(0.3)	0.3	(0.1)
	Romania	2.3	(0.6)	7.8	(7.49)	19.9	(1.4)	33.4	(7.49)	26.5	(1.5)	8-8	(1-0)	1.1	E9 30	0.0	(0.1)
	Russian Federation	0.5	(0.2)	3.5	(0.6)	13.9	(1.0)	32.1	(1.2)	32.0	(1.2)	15.6	(1.2)	4.0	(0.13)	0.4	(0.2)
	Serbia	0.7	(0.3)	41	(0.7)	16.5	(1-1)	35.0	(1.3)	32.0	(1.2)	10.4	(1.0)	1.2	(0.3)	0.1	(0.1)
	Shanghai-China	0.0	10-0)	0.2	(0,1)	1.3	(0.3)	6.8	(0.7)	23.0	(1,1)	36.7	(1,2)	26.7	(1.5)	5.4	(0.7)
	Singapore	0.2	(0.1)	1.6	(D 3)	7.9	(0.6)	17.4	(2.50		(1.1)	27.3	(1.49	14.8	40.1)	3.7	(0.6)
	Chinese Taipei	0.1	(0.1)	1.7	(0.3)	7.7	(0.7)	21.6	(1.4)	35.5	(1/2)	25.1	(1.3)	7.3	(1.2)	0.9	(0.4)
	Theiland Trinidad and Tobago	4.8	(0.2)	10.1	(0.8)	25-3 18-1	(1-5)	41-0 27-2	(1.7)	22.5	(1-5)	12.0	(0.99 (0.80	0.5	(0.2)	0.0 0.5	(0-0) (0.2)
		2.5	(0.5)	10.1	(0.5)	27.4	(1-7)						(0.7)	D-3	(0.7)	D.O	(0.0)
	Turisia							35.8	(1-29	19-8	(1-2)	4 D					

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[Part 1/1]

_	Table 1.2.16	cont	inuo	us te	exts																			
_			All in	adents		Gender differences						Percenfiles												
		Меав	score		dard ution		zys		irk	(3	- C)	5	ń	,	osh	25th		75th		90th		95th		
		Mean	S.E.	S.D.	S.E.	Mean	SE	Mean	SE	Score dif.	S.E.	Score	SE	Score		Score	S.E.	Score	S.E.	Score	S.E.	Score	S.E.	
а	Australia		(2.5)	102	[1.4]	493	(3.0)		(2.8)	-38	(3.1)		(4.0)		(3.4)		(2.6)		[2:8]		(3.6)	671		
õ.	Austria	470	(2.9)	100	(2.0)	445	(3.49 (3.49)	492	(4.1)	-44	(5-7)	301	(4.7)	336	(5.0)	399	(4.2)	544	[3-1)	596	0.60	625	[4.7]	
	Belgium Canada	504	(2.4)	103	(0.9)	491 506		518	(3.0)	-27	(2.1)	326	(5.4)	365	(4-4)	433	\$3.50	582	[2:3)	631	(2.4)	657	(2.4)	
	Chile	453	(1.5)	21	(1.7)	440	(1.5)	466	(1.7)	-37	(3.9)	308	(5.2)		(2.7)	395	(2.2)	512	(1.9)	563	(3.50	592	(4.8)	
	Czech Republic	479	12.90	93	(1.5)	455	(3.7)	507	(3.11	-52	66.20	326	(5.3)	250	(4.9)	413	(3-6)	SAA	(3.2)	601	8.5	632	(3.5)	
	Denmark	496	(2:1)	86	(1.0)	450	(2.5)	512	(7.6)	-32	(2.5)		(4.3)	381	(3.29	439	(2.80	557	(2.5)	605	D 80	632	(3.4)	
	Estonia	197	(2.7)	81	(1.6)	475	(3.0)	521	(2.4)	-46	(2.3)	359	(4.9)	391	(4.9)	443	(3.4)	553	(2.5)	599	(3.6)	626	(3.8)	
	Finland	535	(2.3)	86	(1.0)	507	(2.6)	563	(2.4)	-56	(2.3)	384	(5.2)	419	(3.7)	480	(2.8)	597	(2.3)	641	(2.3)	665	(2.9)	
	France	492	(3-5)	109	(2.8)	470	(4-3)	512	(3.6)	-42	[3.7]	297	(8.6)	344	(7.0)	422	(5.0)	571	(4.3)	625	(4.2)	654	(4.2)	
	Cernuny	496	(2.7)	95	(1.8)	476	(3.7)	517	(3.0)	-41	(4 0)	329	(5.5)		(5.1)	431	(4.2)	566	(2.5)	613	(2.9)	641	(3.1)	
	Greece	687	(4.3)	99	(2.3)	461	[5-4]	512	(3.6)	-51	(4.4)		(BS)	355	(2.6)	420	(6.5)	557	(3.6)	610	(3.5)	639	(3.8)	
	Hungary Iceland	497	(3-3)	93	(2.5)	476	(4.0)	524	(3.7)	-42	(4.0)	335	(5.0)	370	(7.2)	436	(4.8)	563	(3.6)	613	(3.6)	639	(3.6)	
	Ireland	897	(1.6)	99	(2.3)	476	66.53	517	(2.5)	-41	(3-5)	324	0.18	367	(5.4)	435	(6.1)	565	(3.5)	616	[4,0]	665	(4-1)	
	terad	477	(3.6)	111	(2.6)	454	(5.1)	450	(3.5)	-44	(5.1)	228	87	125	(7.6)	403	(4.8)	557	(3.4)	61.6	(3.6)	616	[4.2]	
	Italy	489	(1.6)	97	(1.3)	465	(2.3)	514	(1.5)	-49	42.80	320	0.77	358	B.1)	426	(2.4)	56D	0.80	609	41.73	636	(2.0)	
	japan	520	(3.6)	104	[2.8]	501	(5.7)	541	(3.8)	-39	(6.8)		(10.6)	382	(8.2)	457	(5.1)	594	[2.9]	644	(3.5)	672	(3.4)	
	Korea	538	(3.5)	60	[2-3]	520	(4.89	558	(4.0)	-38	(6-0)	395	(7A)	431	(6.1)	489	(3.9)	595	(3.4)	635	(3.5)	658	(3.9)	
	Luxembourg	423	(7-2)	105	(1.0)	450	(7-9)	493	(1.3)	-43	(2.4)	263	(4.4)	327	B.40	402	(2.7)	548	(2-2)	602	(2-7)	631	(3.0)	
	Mesico	426	(2.0)	87	(1.3)	411	(2.2)	440	(2.1)	-28	(1.8)	276	(4.2)	311	(0.0)	369	(2.7)	487	(1.3)	534	(1.99	560	(2.3)	
	Netherlands	506	(5-0)	89	(1.7)	493	(2-0)	512	(5-2)	-26	(2.6)	363	(4.0)	390	[5-D)	440	(6-2)	573	(5.4)	523	(4-8)	650	(5.0)	
	New Zealand	518	(2.4)	105	(1.7)	495	(3.6)	542	(3.0)	-47	(4.6)	336	(5.9)		(4.6)	447	(3.3)	594	(2.6)	650	(3.2)	680	(3,5)	
	Norway Poland	505	(2.6)	95	(1.4)	476	(3.0)	532 538	(2.5)	-52	(2.9)	341	(4.7)	378 384	(4.2)	442	(2-8)	574	(3.2)	625	(3-2)	653	(3.8)	
	Portugal	492	(2.2)	90	(0.5)	476	(3.7)	512	(3.0)	-53	(2.5)	316	(4.0)	372	(5.0)	432	(4.6)	555	(3.4)	605	(3.4)	632	(3.6)	
	Slovak Republic	479	(2.6)	90	(1.3)	452	(3.7)	512	(2.2)	-01	(7.5)	334	(5.5)	372	(5.5)	417	(4.0)	564	(3.4)	595	(3.3)	623	63.75	
	Slovenia	475	(1.1)	25	(0.9)	455	(1.4)	514	(1.5)	-59	(2.4)	121	(2.7)	355	(2.5)	418	(2.2)	553	(2.1)	605	(7.89	63.1	(2.7)	
	Spain	484	(2.1)	91	(1 1)	464	12.30	Son	(2,3)	-31	(2.2)	324	13.60	363	(3.5)	428	(3.1)	548	(1,8)	595	(1.9)	622	22.25	
	Sweden	499	13 01	101	(1.5)	476	(3.2)	523	(3-3)	-47	(2.8)	323	(5-0)	368	(5.0)	435	(3.8)	569	(3:4)	626	(3.5)	657	(3.5)	
	Switzerland	498	(2.5)	95	(1.5)	478	(2.5)	519	(2.7)	-41	(2.6)	332	(4.6)	370	(4.3)	434	(3.8)	567	\$2.50	616	(3.6)	644	64 1)	
	Turkey	466	(3.5)	84	(7,6)	443	(3.7)	491	(4.1)	-46	0.44	326	(5-6)	357	(4-3)	409	(B-7)	525	(4.2)	573	(4.8)	599	(5.4)	
	United Kingdom	492	(24)	98	(1.2)	478	(3.4)	504		-26	(4.8)	329	(6.1)			425	(3-4)	560	(3.1)		\$3,00	649	(6:1)	
	United States	100	(3.7)	100	[1.6]	487	(4.4)	513	(3.8)	-26	(3.6)	334	(4.1)	368	(4.8)	430	(4.0)	571	(4.6)	632	(5.8)	664	[5.2]	
	OFCD total	192	(82)	100	(D 6)	475	17.59	509	(0.3)	-33	(1.3)		11.59	360	(1.5)		(1.3)	363	(4.5)		(1 8)	049		
	OECD average	494	(0.5)	95	(0.3)	473	(0.6)	515	(0.5)	-42	0.6	330	(B.Or	367	(0.6)	1 431	99.75	_	(0.5)	613	(0.6)	661	(0.6)	
¢	Albania	392	(4.1)	102	(2.0)	359	(5.1)	427	(42)	-67	(4.4)	216	(6,5)			325	(4.8)	667	(5.0)	520	(4.9)	550	15-2)	
Partners	Argentina	400	(4.6)	111	(5.3)	378	(4.9)	419	(4.9)	-41	(3.7)	204	(7.3)		(3.4)	330	(5.4)	477	[2:10]	537	(4-7)	571	[6-6]	
4	Azerbaijan	362	(3.3)	76	(1.8)	349	(3.6)	375	(3.3)	-26	(2.5)	235	(6.7)			310	(4.0)	413	(3.5)	459	(4.4)	487	(5.2)	
	Brazil	414	(2-8)	96	[1-6]	396	(3.0)	430	(2-8)	-34	(1.7)	258	0.6		(3-1)	3.48	(2.7)	478	(3.9)	541	(4.2)	576	(5-3)	
	Bulgaria	433	(6.8)	116	(2.8)	401	(7.4)	466	(5.9)	-65	(4.7)	230	[7.5]			356	(4.7)	475	(4.2)	578	(6.3)	611	(7.2)	
	Colombia	478	(2.9)	20	(1.7)	452	(14)	508	(4.1)	-36	(4.5)	271 324	(6.19		(6.1)		63.79	543	(9.2)	591	(1.6)	556	(6.2)	
	Duhri (UAE)	461	(1.2)	108	(1.1)	433	(3.9)	490	(1.7)	-56	(2.7)	277	(1.7)	317	(3.5)	388	(2.2)	517	(2.3)	591	(1.4)	610	(1.4)	
	Hong Kong-China	539	(2.3)	88	(1.71	520	8.5	500	0.0	-38	(4.5)	379	(6.4)		(5.0)		(3.4)	600	(2.5)	644	(2.7)	671	12.96	
	Indonesia	405	(3.7)	69	20	386	(3-8)	425	(3-8)	-39	(3.2)	292	(5-4)	317	(5.0)	359	(3.6)	452	(4.6)	493	(5.4)	519	(6-1)	
	Jordan	417	(3.2)	92	(2.2)	387	(4.6)	40	(40)	-40	(6.1)	252	(6-0)	294	(5-4)	361	(4.3)	481	(3.2)	528	(3.6)	554	(3-8)	
	Kazakhstan	399	(3.1)	89	(1.5)	376	(3.1)	422	(3.6)	-66	(2.9)	255	(3.5)		(3.7)	338	(3.5)	459	(4.5)	516	(4.6)	548	(6.6)	
	Kyrgyzstan	319	(3.2)	100	(2.0)	289	(3.8)	347	(3.1)	-58	(2:7)	154	(5.0)		(4,5)		(4.1)	384	(4.4)	448	(6.0)	487	(6.4)	
	Latvia	184	(3.0)	80	(1.6)	459	(3.5)	508	(3.1)	-49	(3.2)	347	(6.6)		(4-6)	430	(4.2)	541	(3.8)	584	(3.1)	608	(6.4)	
	Liechtenstein	495	(3.0)	86	(3-3)	479	(4.8)	513	(5.4)	-34	(8.5)	344	(72-8)		(8.7)		(7.8)	228	[62)	604	(7-8)	626	(90.6)	
	Lithurnia Meczo-China	470	(2.5)	80	(1.7)	440	(1.25	502	(2.4)	-62	(7.6)	325	(2.4)	357	(4.3)	410	(3-4)	531	(2.8)	590	(3.1)	607	[4.5]	
	Maczo-China Montenegro	411	(1-8)	95	(1.3)	184	(9.2)	440	(1-1)	-37	(1.5)	256	0.9		(2.1)	347	(2.5)	476	(3.1)	590	(1-7)	566	(4.7)	
	Panama	373	(6.7)	101	(37)	355	(7.0)	392	(2.3)	-03	(6.3)	205	(13.4)		(10.2)		(7.6)	441	(7.3)	505	(91)	543	(9.2)	
	Penu	374	(3.99	100	(2.4)	362	(4.0)	387	(4.8)	-25	(4.6)	200	(5.5)		(4.9)	306	(4.3)	444	(5.0)	502	(6.2)	536	(7.4)	
	Qutar	375	(0.9)	112	(0.8)	346	(1.3)	403	(1.1)	-55	(1 8)	192	(2.1)		(1.8)		(1.7)	458	(1.7)	535	(1.59	578	(234)	
	Romania	423	(4-0)	92	(2.4)	399	(4.4)	447	(4.3)	-48	(4.6)	265	(6.3)		(5.8)	362	(5.4)	458	(4.3)	536	(4.7)	566	(4.7)	
	Russian Federation	461	(3.1)	88	(1.7)	437	(3.3)	181	(3.2)	-47	(27)	312	(5.5)		(1.4)		(3.7)	520	(3.4)	573	(4.1)	605	[4,8]	
	Serbia	444	(2.3)	83	(1-7)	423	(3.2)	465	(2-5)	-43	(3.3)	302	(440)		(3.9)	389	(34)	502	(2-6)	547	(3-0)	573	(3-6)	
	Shanghai-China	564	(2.5)	82	(1.7)	541	(3-1)	587	(2.4)	-45	(31)	422	(54)		(4.7)		(3.5)	623	(2.3)	665	(2.8)	689	(3.0)	
	Singapore	522	(1.1)	100	(1.2)	506	(1.7)	538	(1.5)	-32	(2.4)	347	(4 D)		(3-8)	455	$(2\ 1)$	594	(1.7)	648	(2.8)	677	(3.2)	
		496	(2.6)	88	(7.9)	477	(3.7)	516	3.6	-39	(5:39	341	(4.8)	379	(4,3)	440	(3.2)	558	(3.5)	604	(4.9)	631	(5.2)	
	Chinese Taipei																							
	Thorizand	423	(2.8)	73	(1.9)	399	(3.4)	441	(3.2)	-43	(4.0)	304	(4.8)	329	(3-7)	373	(3.4)	472	(3.1)	517	(4.0)	544	(5-4)	
		423 418 408	(13)	73 117 85	(1.9) (1.2) (1.7)	399 385	(3.4) (2.1) (3.2)	441 450 424	(3.2) (1.8)	-43 -45	(4.0)	304 215 260	(4.8)	262	(3-7) (3-3) (3-2)	340	(3.4) (2.6) (3.5)	472 500 467	(3.1) (2.1) (3.1)	517 563	(3.0)	544 600 538	(S-4) (R-5) (9-3)	

Note: Values that are statistically against are indicated in bold (see Annex A3). Statistics @659 http://do.doi.org/10.1%/98853245283



	Table 1.2.17	Perce		of stu	dents a	t each	profi	ciency	level o	n the	readin	g subs	cale n	on-cor	tinuo	s tex	ts
_									Proficie	cy level							
		dess the	Level 1b n 262.04 points)	(fears 2 less tha	el 16 52.04 to 534.75 points)	(from 3 less that	rl 1a 14.75 to n 407.47 points)	(from 4 less the	el 2 07.47 to	Les (from 4 less than	el 3 80.18 to	less than	52.89 to	less that	25.61 to	(above	vel 6 : 698,32 points)
		%	3.2	%	5.5.	5	3.5.	5	S.E.	5	5.5.	%	5.5.	%	S.E.	%	S.E.
CDAC	Australia	0.9	(0.1)	2.8	(0.3)	3.5	(0.5)	189	(0.6)	28.3	(0.7)	25.6	(0.6)	12.2	(0.6)	2.8	(0.4)
ŏ	Austria	3.2	(0.5)	8.5	(0.4)	15.3	(0.0)	22.4	(1.1)	26.2	(1.1)	18.5	(0.5)	5.4	(0.6)	0.5	(0.2)
	Belgium	16	(0.3)	4,5	(0.4)	108	(0.5)	185	(3.0)	26.0	(0.8)	25.6	(0.6)	11.3	(0.6)	1.5	(0.5)
	Canada	0.5	(0.1)	2.1 8.2	(0.2)	7.5	(0.4)	19.0	(0.5)	30.2	(0.6)	26.9	(0.6) (0.8)	11:6	(0.5)	2.3	(0.2)
	Czech Republic	2.1	(0.5)	5.7	(9.7)	15.0	(1.1)	77.6	(0.5)	27.1	(1.1)	16.5	(0.0)	4.7	(0.5)	0.4	(0.1)
	Denmark	0.5	(0.1)	3.4	(0.4)	12.3	80.69	26.5	(0.5)	32.6	40.80	196	(0.9)	46	40.53	9.3	(0.1)
	Extonia	0.6	(0.2)	2.5	(0.4)	9.6	(0.7)	22.0	(1.1)	31.8	(1.2)	23.9	(1.0)	8.2	(0.6)	1.4	(0.5)
	finland	0.3	(0:1)	1.7	(0.2)	6.5	(0.4)	17.3	(0.6)	29.6	(0.7)	29.6	(0.9)	12.9	(0.8)	2.1	(0.3)
	France	2.1	(0.4)	5.0	(0.6)	11.3	(0.6)	21.1	(1.1)	28.4	(1.2)	23.1	(1.2)	8.0	(0.8)		(0.2)
	Cermany	1.4	(0.3)	5.0	(0.6)	12.2	(0.8)	21,4	(1.1)	28.6	(0.9)	23.1	(0.9)	7.4	(0.6)	0.8	(0.2)
	Greece Hungary	1.2	(0.5)	6.5 4,8	(0.5)	14.9	(0.9)	27.0	(0.9)	29.3	(1.3)	16.4	(0.8)	3.4	(0.4)	03	(0.1)
	Iceland	1.4	(0.4)	4.0	(0.4)	11.3	(0.6)	29.5	(0.7)	31.0	10.50	20.4	00.85	7.1	(0.0)	0.5	(0.1)
	Ircland	1.7	(0.4)	41	40.5)	11.2	(0.7)	22.9	(0.1)	31,0	(1,0)	22.0	(1.0)	6.5	(0.5)	0.6	(0.2)
	tseael	5.5	(0.7)	89	(0.6)	15.1	(0.5)	21.9	80.59	23.6	(0.7)	16-8	(0.7)	6.9	(0.6)	1.3	(0.2)
	Italy	2.6	(0.3)	.6.4	(0.3)	15.2	(0.4)	245	(0.6)	27.6	(0.7)	18.1	(0,5)	5.1	(0.3)	0.5	(0.1)
	Japan	1.4	(0.3)	3.3	(0.4)	8.5	(0.7)	19.2	(0.4)	29.0	(1.0)	26.2	(2.0)	105	(0.7)	2.0	(07:4)
	Korea	0.3	(0.2)	0.9	(0.3)	48	(0,7)	15,2	(3.6)	36.8	(1.1)	33.1	(1.3)	13.3	(1.1)	1.6	(0.3)
	Luxembourg	3.1	(0.3)	2.1	(0.7)	15.4	(0.6)	24.5	(0.7)	27.2	(0.5)	17-6	(0.7)	4.8	(0.2)	0.4	(0.1)
	Mexico	3.5	(0.3)	11.8	(0.5)	25.5	(0.5)	32.2	(0.6)	20.9	(0.6)	24.6	(0.3)	10.6	(0.1)	0.0	(0.0)
	Netherlands New Zealand	0.2	(0.1)	2.1	(0.4)	8.9	40.53	23-2	(1.5)	27.6	(1.3)	25.7	(1.5) (0.6)	15.0	(1-1)	14	(0.4)
	Nonezy	0.7	(0.2)	3.4	(0.4)	11.7	10.75	247	(1.1)	32.0	60-80	20.9	(1.69	6.1	(0.7)	0.6	(0.2)
	Poland	1 11	(0.2)	41	(0.4)	12.2	10.77	245	00.00	30.0	40.83	20.6	(D-0)	6.0	(0.7)	1,0	(0.2)
	Portugal	0.9	(0.2)	4.4	10.61	13.2	10.59	26.6	(1.0)	30.9	(1.0)	18.7	(D.9)	4.5	(0.5)	0.5	(0.2)
	Slovak Republic	1 15	(0.4)	6.1	(0.6)	16.5	(0.5)	28.0	(1.0)	286	(1.0)	156	(0.9)	34	(0.5)	0.3	(0.2)
	Slovenia	13	(0.2)	5.4	(0.5)	14.9	(0.7)	27.0	(0.9)	31.5	(0.6)	17.1	(0.8)	2.7	(0.4)	0.1	(0.1)
	Spain	23	(0.3)	5.9	(0.4)	148	(0.6)	26.8	(0.7)	30.7	(0.8)	16.1	(0.7)	3.2	(0.2)	0.2	(0.1)
	Sweden	1.5	(0.2)	3.9	(0.4)	11.3	(0.8)	23.5	(0.5)	30.7	19-8)	20.6	(0.8)	7.4	(0-6)		(0.3)
	Switzerland	1.4	(0.1)	3.8	(0.5)	11.1	(0.7)	21.9	(0.1)	30.1	(1.1)	23.2	(0.0)	8.2	(0.7)	09	(0.2)
	Turkey United Kingdom	1.1	(0.3)	3.5	(D4)	185	(1.1)	22.5	(1.4)	28.4	(1-2) (0.8)	12.4	(1.1)	2.0	(0.5)	1.9	(0.0)
	United States	0.5	(0.1)	3.7	(0.4)	11.9	0.0	240	(1.0)	28.6	(0.9)	21.5	(1.0)	8.5	40.80	1.2	(0.2)
	OECD total	17.4	- akty	9.48	10.21	13.3	(0.3)	21.0	#K33	280	10.34	30.1	40,35	7.2	10.21	1.1	99.73
П	OECD average	3,5	(0.1)	4.6	(83)	12-8	(0.8)	Dia.	(8.7)	28.0	(0.7)	20.0	10.21	7.0	(0.1)	10	(0.0)
5	Albania	16.7	(7.3)	20.3	(1.7)	25.9	(0.5)	22.6	(1.4)	11.6	(1.2)	2.7	(0.4)	0.3	(0.7)	0.0	60.00
Partners	Argentina	13-3	(7.2)	17.0	(1.1)	23.7	(7.2)	23.6	(1.1)	14.7	(1.3)	6.5	(0.8)	1.2	(0.3)	0.1	(0.1)
ξ.	Azerbaijan	173	(7.5)	25.3	(1.0)	29.8	(1.0)	19.7	(1.2)	6.7	(0.7)	1.1	(0.2)	01	(0.1)	0.0	(0.0)
	Brazil	6.1	(0.4)	16.5	(0.6)	27.8	(0.5)	26.8	(8.0)	15.5	(8.0)	6.1	(0.5)	1.2	(0.2)	0.1	(0.0)
	Bulgaria	11.0	(1.3)	13.1	(1.2)	190	(1.3)	22.7	(1.1)	20.1	(1.4)	108	(1.1)	2.8	(0.6)	0.4	(0.2)
	Colombia Creatia	6.3	(0.9)	14.9	(1.1)	27.7	(1.1)	28.3	(1.1)	16.8	(1.1)	5.1	(0.5)	0.8	(0.4)	01	(0.0)
	Dubai (UAE)	44	(0.3)	9.8	(0.4)	17.6	(0.5)	23.6	(0.5)	23.3	(0.7)	15.4	(0.5)	5.3	(D-4)	0.2	(0.1)
	Hong Kong-China	0.4	(0.1)	1.8	(0.4)	7.5	40.60	18.9	(0.5)	33.1	(0.7)	28.3	(0.7)	9.2	(0.7)	08	(0.2)
	Indonesia	4.6	(0.7)	16-2	(1.3)	33 0	(1.5)	31.0	(1.4)	12.8	(1.3)	23	(0.6)	01	(0.1)	0.0	(0.0)
	Jordan	13.7	(1.0)	16.5	(1.0)	24.4	(0.9)	25 0	(8.0)	14.4	(0.8)	5.0	(0.5)	1.0	(0.3)	01	(0.1)
	Kazakhstan	168	(1-0)	20-8	(8-1)	25.3	(0.5)	26.1	(0.9)	11:3	(0.7)	4.6	(0.6)	1.0	(0.3)	0.1	(0.1)
	Kyrgyzstan	39.1	(14)	26.6	(1.0)	197	(0.9)	9.7	(0.7)	3.8	(0.5)	0.9	(0.2)	0.2	(0.1)	0.0	(0.0)
	Latvia	0.7	(0.2)	40	(0.5)	13-8	(1-0)	26.5	(1.1)	31.4	(1.1)	18.9	(1.0)	4.4	(0.5)	0.3	(0.1)
	Liechtenstein Lithmatte	1.5	(0.4)	2.8	(1.2)	18.9	(1.7)	22.7	(2.5)	29.1	(2.6)	13.4	(2.9)	5.4 2.8	(1.6)	0.7	(0.5)
	Marzo-China	0.4	(0.3)	2.8	(0.5)	13.6	(0.5)	31.8	(0.7)	36.9	(0.1)	15.0	(80)	2.8	(0.4)	0.2	(0.1)
	Meatenegro	8.7	(0.4)	16.9	(0.2)	26.9	(1.0)	26.4	(0.9)	16.1	10.6)	44	(0.5)	0.6	(0.1)	0.0	(0.0)
	Farema	178	(2.0)	24.5	(2,6)	263	(1.5)	18.4	(1.5)	9.0	(1.2)	3.5	(0.7)	0.5	40.23	0.0	(0.0)
	Feru	19.0	(1.1)	23.0	(1.0)	26.4	(1.6)	19.7	(1-0)	8.9	(0.59	2.5	(0.5)	0.5	(0.2)	0.1	(0.0)
	Quiar	22.1	(0.4)	22,0	(0.5)	221	(0.5)	16.2	(0.5)	100	(0.3)	5.4	(0.3)	1.8	(0.2)	0.4	(0.1)
	Romania	5.1	(0.7)	12.9	(1:0)	23-4	(1-2)	290	(1.3)	21.6	(1.0)	2.1	(0.8)	1.0	(0.3)	0.0	(0.0)
	Russian Federation	2.9	(0.5)	8-1	(0.7)	20.7	(1.0)	28-8	(0-8)	243	(1.0)	11.3	(0.7)	3.1	(0.4)	0.6	(0.2)
	Serbia	3.8	(0.5)	10.5	(0.6)	23.4	(1.0)	30.2	(1.0)	23.7	(1.0)	8.9	(0.6)	1,4	(0.3)	01	(0.1)
	Shanghai-China Singapore	0.2	(0.1)	1.2	(0.3)	52 73	(0.5)	16.2	(0.7)	31.2 27.8	(0.9) (0.6)	31,4	(1.2)	12.8	(0.7)	1.9	(0.3)
	Chinese Taipei	1.0	(0.1)	3.7	(0.4)	11.1	(0.7)	22.8	(0.5)	31.1	(1.2)	22.4	(1.0)	7.0	(0.7)	0.8	(0.2)
	Thailand	1,5	(0.3)	10-1	(0.9)	30-5	(1.4)	36-2	(1-1)	17-3	(0.9)	4-0	00.53	0.4	(0.2)	0.0	(0.2)
	Trinidad and Tobago	97	40,5)	140	10.81	21.3	60.73	24,4	(0.6)	19.2	(0.7)	9.0	(0.4)	2.2	(0.2)	0.3	40 1)
	Tunisia	8.6	(0-7)	18.0	(0.8)	29.6	(0.5)	27.1	(1.0)	13.9	(0.9)	3.4	(0.5)	0.4	(0.2)	0.0	(0.0)
	Uruguay	6.9	(0.7)	13.7	(0.6)	22,5	(0.4)	27.2	(0.7)	19.4	(0.4)	4.0	40.6)	1.5	(0.3)	0.2	(0.1)

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(Part 1/2) Percent is at each proficiency level on the reading subscale no Table 1.2.18 by gender

Boys - Proficiency levels Level 16 Level 3 Level 4 Level 5 am 334.75 to m 407.47 to om 400.18 to (from 552.89 en 625.61 to m 262.04 few then 202.04 an 334.73 few than 407.47 fe on them 400.10 less than 552.89 less than 625.61 less than 698.32 score points score points) score points) score points) S.E 5.5 Australia Austria Belgum Canada Chile 3.0 8.0 Czech Republic Dermark (1,00 Estoria Frederick 31.1 7.8 Germai Grece Humsary (1.0) 26.9 (1.6) 28.8 0.49 (02.1) tceland Ireland 29.8 teraci Italy Japan Korea 185 tusembourg Mexico (0.7) 18.5 43 Netherland New Zealand (0.3) (0.8) 20.1 25.3 21.6 (1,00 Poland 16.3 Portugal Slovak Republic (0.5) 29.6 (1.5) 23.2 (0.2) Slovenia Spain Sweden Switzerda 29.6 0.6 Turkes United Kingdo 48 0.49 United States 25.4 OFCD total OFCD average Albania Arcenting Azerbatian Brazil **Bulsaria** 20 9 29.4 Colombia Croatia Dubai (UAI) Hong Kong-China 96 Endonesia Jordan Kazakhetar Kyrgyzstan 25.1 00.80 2.8 3.9 (1.6) 28.5 Liechtens Lithuaria Macan-Chin Montenegro Fanama Feru Qatar Romani Domina Federatu Scrbia Shanghai-China Singapore Chinese Taipei 1.8 246 Thailand Trinidad and Tol 16.3 Turisia

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Uruguay



[Part 2/2] Percentage Table I.2.18 by gender

	Table 1.2.18	by ge	nder					_									
		diese tha		less tha	62.04 to 1334.75	(from 3 less tha	el 1a 34.75 to a 407.47	from 4	97.47 to 6 489.15	(from 4	el 3 80.18 to 8 312.89	(from 5 less tha	el 4 32.89 to n 625.61	(from 6 less tha		(above	vel 6 : 698.32
		score	points)	score.	points) S.F.	score	points) S.E.	score.	points) S.E.	score %	points) S.f.	score	points)	score	points) S.F.	score	points)
^	Australia	0.4	63.1)	1.6	00.25	6.0	80.53	16.0	0.0	28.7	(1,1)	28.6	(0.9)	14.5	(0.7)	3.5	(0.5)
9	Austria	1.2	(92.63	6.1	(1.0)	12.1	(1.2)	22.4	(3.5)	28.3	(1.5)	21.6	(1.3)	6.8	(0.7)	0.7	(0.2)
٥	Edgum	0.7	(0.2)	3,3	(0.5)	8.6	(0.6)	173	(0.5)	27.0	(1.6)	28.0	(1.0)	13.3	(0.90	1.9	(0.4)
	Canada	0.2	(0.1)		(0.2)	5.0	(0.3)	16.2	(9.6)	30.7	(0.5)	29.8	(0.9)	14.1	(0.7)	3.0	(0.4)
	Chile	1.2	(0.3)	6.4	(0.8)	21.4	(1.1)	33.9	(1.3)	27.0	[1.49	9.0	(1.0)	1,2	(0.4)	0.0	(0.0)
	Czech Republic	1.0	(2.4)	3.4	(0.7)	11.2	(1.1)	25.4	(1.4)	30.1	[1.49	21:6	(1,2)	6.8	(0.8)	0.6	(0.2)
	Denmark Estonia	62	(0.1)	2.4	(0.4)	9.8	(8 (8)	23.7	(1.4)	34.4	(1.1)	28.5	(1.3)	11.4	(0.9)	2.1	(0.2)
	Finland	0.1	60.13	0.6	(0.5)	2.9	(0.4)	11.3	90.70	28.1	(1.6)	35.6	(1.3)	17.9	(1.1)	3.4	(0.5)
	france	1.0	00-43	2.8	10.57	88	(0.9)	19.6	(1.2)	30.3	(1.6)	26.5	(2.0)	9.6	(1.2)	14	00.40
	Germany	0.6	00,23	2.9	(0.5)	9.6	(0.50	16.6	(1.3)	29.9	(1.2)	27.2	(1.2)	9.9	80.50	1.2	00.31
	Grece	0.9	(0.4)	3.6	(0.7)	11.8	(1.1)	23.6	(3.4)	32.7	(1.2)	20.5	(1.1)	4.4	(0.7)	0.5	02.33
	Hungary	0.9	(0.4)	3.4	(0.5)	101	(0.9)	22.1	(17)	32.5	(1.7)	24.2	(1.6)	6.2	(0.7)	0.5	(0.2)
	tceland	0.5	(0.2)	2.1	(0.4)	2.6	(0.9)	20.6	(1.6)	33.7	(1.7)	25.2	(1.2)	9.0	(0.9)	1.4	(0.5)
	Ireland	0.7	40.30	2.2	(3.6)	5.4	60.49	20.6	(1.2)	32.3	(1.3)	24.2	(1.4)	8.6	(0.9)	0.9	60.4
	teraci	2.7	(0.5)	6.8	(0.7)	13.5	(0.9)	21.9	(1.0)	26.5	(0.9)	19.4	(0.5)	7.8	(0.8)	1.4	(0.3)
	Haly	1.0	(0.25)	3.7	0.9	11.7	(0.5)	23.4	(0,8)	31.1	(0.9)	21.8	(0.6)	6.5	(0.4)	2.7	(0.1)
	Japan	0.6	(0.3)	1.8	(0.4)		(0.7)	16.5	(1.2)	29.9	(1.4)	29.7	(1.4)	13.2	(1.2)	2.7	(0.6)
	Kores Luxembourg	1.6	(0.1)	49	(0.2)	12.8	(0.5)	243	(0.5)	29.5	(1.5)	37.2	(1,8)	16.4	(1,7)	0.5	(0.5)
	Mexico	2.5	(0.4)	97	(0.6)	23.9	(0.9)	33.7	40.85	23.2	(1.3)	5.6	(0.5)	0.6	40 03	0.0	(0.2)
	Netherlands	01	(0.1)	13	(0.4)	85	(1.1)	21.1	(1.6)	28-0	(1.8)	26.9	(2.0)	12.4	(1.4)	17	(0.0)
	New Zealand	0.2	(0.1)	1.1	(0.3)	5.2	6.6	15.2	(3.0)	25.1	(1.2)	29.9	(1.2)	18.1	(0.9)	5.2	(0.6)
	Norway	0.2	(0.1)	1.7	00.40	7.4	80.70	21.7	(1.3)	33.8	(1.4)	25.8	(1.6)	84	40.80	0.9	(0.3)
	Poland	0.3	(0.2)	16	60-40	7.8	63.69	22.6	(7,1)	32.6	(1.5)	24.6	(1.1)	9.1	(1.0)	13	(0.4)
	Portugal	63	(03.2)	2.5	(9.4)	9.8	(2.5)	24.9	(1.3)	33.9	(1.39	21.8	(0.1)	4.3	60.60	0.6	(0.3)
	Slovak Republic	0.7	(02.3)	2.8	(0.6)	114	(D 5)	26.3	(1.3)	34.D	(1.4)	19.9	(1.1)	44	(0.8)	0.5	(0.3)
	Slovenia	0.3	(0.1)	2.3	(0.3)	97	(6.8)	25.8	(1.3)	35.5	(1.5)	22.2	(1.4)	4.1	(0.6)	0.1	(0.1
	Spain	1.3	(0.2)	4.2	(0.5)	117	(0.7)	26.1	(0.9)	33.7	(1.0)	18.9	(0.8)	4.0	40.40	0.2	(0.1)
	Sweden	0.7	(9-2)	1.9	(0.5)	7.5	(0.4)	20.6	(1.1)	32.7	(1.2)	25.0	(1.2)	10.0	(0.5)	1.6	00.4
	Switzerland	0.4	(0.1)	21	(D.4)	8.0	(0.7)	18.9	(1.1)	30.7	(1.4)	27.5	(0.1)	11.0	(1.0)	1.4	(0.4
	Turkey	0.6	(0-2)	3.8	(0.7)	13.9	(1-3)	30.8	(1.8)	32.7	(1.6)	15:1	(1-6)	3.0	(0.7)	0.1	(0.1)
	United Kingdom	0.6	(0.2)	2.2	6.49	100	(0.5)	20.9	(0.5)	30.1	(1.1)	24.4	(1.2)	10.1	(0.5)	2.3	(0.4)
	OFCO total	0.7	92.09	3.0	(0.1)	97	(0.0)	21.8	(0.2)	50.6	00.29	24.0	(0.0)	9.6	(0.2)	14	KV.8
	OECD average	0,0	10.11	9.0	(8.2)	10.0	(0.3)	22.8	(0.4)	29.4	(0.4)	22.0	19.40	8.7	(0.3)	140	mi
	Albania	87	(1.0)	16.7	(1.3)	27.2	0.9	25.3	(1.7)	15.0	(1.5)	3.6	(D 6)	0.4	(0.3)	0.0	(0.0)
i	Argentina	103	(1.2)	15.6	(1.3)	23.6	(1.5)	25.2	(1.3)	16.3	(1.7)	7.6	(1.1)	1.2	(0.4)	0.1	(0.1)
Ę	Azerbaijan	13.7	(1.4)	24.1	(1.5)	312	(1.5)	22.3	(1.5)	7.5	40.50	1.3	(0.4)	0.1	00.10	0.0	(0.0)
	Srazil	4.2	(0.4)	14.8	(9.7)	27.3	(1.0)	28.7	(1.0)	17.2	(2.9)	6.5	(0.6)	1.2	(0.2)	0.1	(0.1)
	Bulgaria	58	(0.9)	26	(8.3)	170	(1.6)	25.2	(1.5)	26.6	(1.7)	13.8	(1.7)	3.7	(0.8)	0.6	(0.3)
	Colombia	5.9	(1-0)	14.7	(8.3)	27-2	(1.3)	28,8	(1-4)	17-6	[1.29	5-1	(0.6)	0.8	(0.3)	0.1	(0.1)
	Croatia	0.4	(0,1)	2,7	(0.5)	117	(1.1)	26-6	(1-2)	34 D	(1.7)	19.5	(1:4)	4.7	(0.7)	0.3	0.2
	Dubai (UAI)	1.7	(0.5)	6-1	(0.6)	15.6	(D 8)	25-4	(1.1)	26.4	(1.1)	17.8	(1-1)	6.2	(0.7)	0.8	(0.2)
	Hong Kong-China	0.0	(0.0)	13	(0.3)	5.1	(0.6)	16.2	(1.0)	32.9	(1.2)	31.5	(1.3)	11.6	(1.0)	1.0	(0.2)
	Indonesia Iordan	29	(0.7)	11.3	(1.2)	303	(1.5)	35.3	(1.6)	168	(1.8)	3.2	(0.8)	0.2	(0.1)	0.0	(0.0
	Jordan Karakhatan	10.7	(0.9)	13.0	(1.1)	22.8	(1.3)	28.6	(1.3)	14.3	(1.2)	6.1	(0.8)	1.5	(0.4)	0.1	(0.1)
	Kazakhitan Kyrgyzstan	31.0	(1.6)	28.1	(1.0)	26.4	(1.2)	15.9	(1.5)	14.3	(1.1)	1.2	(0.3)	0.2	(0.3)	0.1	(0.1)
	Latvia	0.3	(0.4)	1.6	(8:3)	86	(1.2)	23.6	(1,5)	35.2	(1.4)	243	(1.5)	5.8	40.70	0.6	00.0
	Liechtenstein	0.0	(0.5)	1.4	(0.5)	7.4	(7.5)	19.7	(3.7)	29.7	(3.5)	34.7	(5.2)	6.7	(2.50	0.3	(0.7
	Lithuaria	0.4	(0.2)	3.1	(0.5)	128	(0.9)	27.2	(1.3)	33.0	D-09	18.9	(1.1)	4.2	40.60	0.3	0.2
		0.1	(0.1)	1.6	(0.2)	9.6	(0.6)	29.5	(1-1)	384	(1.3)	18.1	(1.3)	26	(0.3)	0.1	(0.1
	Macao-China				(7-1)	244	(1-4)	39.1	(1.2)	29.9	(1.2)	6-2	(0.7)	0.9	(9.3)	0.0	(0.1)
	Macao-China Montenegro	4.9	60-75	12.6				189	(1.5)	11.7	(1.6)	4.9	(1.2)	0.7	(0.3)	0.0	
	Montenegro Fanama	15.9	(2.2)	21.9	(2.2)	25.9	(2.2)					2.9	89.66	0.4	ID-23	0.1	(0.1
	Montenegro Fanama Feru	15.9 16.7	(1-2)	21.9 22.2	(2.2)	263	(1:3)	29.8	(8-3)	10.5	(1-2)						62.1
	Montenegro Fanama Feru Qatar	15.9 16.7 13.4	(2.2) (1.2) (0.5)	21.9 22.2 21.2	(2.2) (1-4) (0.6)	263 249	(0.8)	20.8 20.3	(0.7)	12.0	(0.5)	5.9	(0.5)	1.9	(0.3)	0.3	
	Montenegro Fanama Feru Qatar Romania	15.9 16.7 13.4 3.1	(2.2) (1.2) (0.5) (0.7)	21.9 22.2 21.2 9.2	(2.2) (1.4) (0.6) (1.1)	263 24.9 22.1	(1.3) (0.8) (1.4)	20-8 20-3 30-3	(1-3) (0.7) (1-6)	12.0 25.2	(0.5)	5.9 8.7	(0.5)	1.9	(9.3) (9.4)	0.1	60.1
	Monte regro Fanama Feru Qatar Romania Russian Federation	15.9 16.7 13.4 3.1 1.4	(2.2) (1.2) (0.5) (0.7) (0.3)	21.9 22.2 21.2 9.2 5.2	(2.2) (1.4) (0.6) (1.1) (2.4)	263 249 22.1 168	(1.3) (0.8) (1.4) (1.2)	20.8 20.3 30.3 28.4	(1-3) (0.7) (1-6) (1-3)	12.0 25.2 28.9	(0.5) (1.6) (1.4)	5.9 8.7 14.1	(0.5) (1.0) (1.0)	1.9 1.4 4.3	(0.3) (0.4) (0.4)	0.1	(0.3
	Montenegro Fanama Feru Qatar Romania Romania Sorbia	15.9 16.7 13.4 3.1 1.4 1.8	(2.2) (1-2) (0.5) (0.7) (0.3) (0.4)	21.9 22.2 21.2 9.2 5.2 7.2	(2.2) (1.4) (0.6) (1.1) (0.6) (0.6)	263 249 22.1 168 180	(1.3) (0.8) (1.4) (1.2) (1.1)	20.8 20.3 30.3 28.4 32.0	(1-3) (0.7) (1-6) (1.3) (1.7)	12.0 25.2 28.9 27.9	(0.5) (1.6) (1.4) (1.2)	5.9 8.7 14.1 11.2	(0.5) (1.0) (1.0) (0.6)	1.9 1.4 43 1.8	(0.3) (0.4) (0.4)	0.1 0.8 0.1	(0.3 (0.3
	Montenegro Fanama Feru Qatar Romania Rossian Federation Serbia Shanghai-China	15.9 16.7 13.4 3.1 1.4 1.8 0.1	(2.2) (1.2) (0.5) (0.7) (0.3) (0.4) (0.1)	21.9 22.2 21.2 9.2 5.2 7.2 6.4	(2.2) (1.4) (0.6) (7.1) (0.6) (0.6) (0.2)	263 249 22.1 168 180 3.1	(1-3) (0.8) (1-6) (1-2) (1-1) (0.4)	20.8 20.3 30.3 28.4 32.0 12.4	(1-3) (0.7) (1-6) (1.3) (1.7) (0.9)	12.0 25.2 28.9 27.9 29.4	(0.5) (1.6) (1.4) (1.2) (1.4)	5.9 8.7 14.1 11.2 35.6	(0.5) (1.0) (1.0) (0.6) (1.6)	1.9 1.4 43 18 163	(0.4) (0.4) (1.0)	0.1 0.8 0.1 2.7	(0.3 (0.3 (0.1 (0.5
	Monte negro Fanama Feru Qatar Romania Rassian Federation Sechia Shanghai-China Singapore	15.9 16.7 13.4 3.1 1.4 1.8 0.1 0.0	(2.2) (1.2) (0.5) (0.7) (0.1) (0.4) (0.1) (0.0)	21.9 22.2 21.2 9.2 5.2 7.2 0.4 0.9	(2.2) (1.4) (0.6) (7.1) (2.6) (0.6) (9.2) (0.2)	263 249 22.1 168 180 3,1 5.3	(1.3) (0.8) (1.4) (1.2) (1.1) (0.4) (0.4)	20.8 20.3 30.3 28.4 32.0 12.4 14.5	(1-3) (0.7) (1-6) (1-3) (1-7) (0.9) (0.4)	12.0 25.2 28.9 27.9 29.4 27.7	(0.5) (1.6) (1.4) (1.2) (1.4) (1.1)	5.9 8.7 14.1 11.2 35.6 29.5	(0.5) (1.0) (1.0) (0.6) (1.6) (1.0)	1.9 1.4 43 1.8 163 17.5	(0.4) (0.4) (0.4) (1.0) (1.1)	0.1 0.8 0.1 2.7 4.5	(0.3 (0.3 (0.1 (0.5 (0.5
	Monte tegro France Fres Qutar Romania Rossian Federation Sechia Shanghal-China Singapore Chinese Taipei	15.9 16.7 13.4 3.1 1.4 1.8 0.1 0.0 0.2	(2.2) (1-2) (0.5) (0.7) (0.3) (0.4) (0.1) (0.0) (0.1)	21.9 22.2 21.2 9.2 5.2 7.2 6.4 0.9 2.0	(2.2) (1.4) (0.6) (7.1) (0.6) (0.6) (0.2) (0.2) (0.4)	263 249 22.1 168 180 3.1	(1.3) (0.8) (1.4) (1.2) (1.1) (0.4) (0.4) (0.8)	20.8 20.3 30.3 28.4 32.0 12.4	(1-3) (0.7) (1-6) (1.3) (1-7) (0.9) (0.4) (1.4)	12.0 25.2 28.9 27.9 29.4 27.7 32.4	(0.5) (1.6) (1.4) (1.2) (1.4) (1.1) (1.2)	5.9 8.7 14.1 11.2 35.6	(0.5) (1.0) (1.0) (0.6) (1.6) (1.4)	1.9 1.4 43 18 163 17.5 8.9	(0.4) (0.4) (1.0) (1.1) (1.2)	0.1 0.8 0.1 2.7 4.5 1.1	(0.1 (0.3 (0.1 (0.5 (0.5 (0.3
	Monte negro Fanama Feru Qatar Romania Russian Tederation Sechia Shanghai-China Singapore Chinates Taipei Thailand	15.9 16.7 13.4 3.1 1.4 1.8 0.1 0.0 0.2 0.6	(2.2) (1.2) (0.5) (0.7) (0.3) (0.4) (0.1) (0.0) (0.1) (0.2)	21.9 22.2 21.2 9.2 5.2 7.2 0.4 0.9 2.0 6.5	(2.2) (1-4) (0.6) (1.1) (0.6) (0.6) (0.2) (0.2) (0.4) (0.6)	263 249 22.1 168 180 3.1 5.3 8.1	(1.3) (0.8) (1.4) (1.2) (1.1) (0.4) (0.4) (0.8) (1.5)	20.8 20.3 30.3 28.4 32.0 12.4 14.5 21.0 40.0	(1-3) (1-3) (1-3) (1-3) (1-7) (3-9) (3-4) (1-4)	12.0 25.2 28.9 27.9 29.4 27.7 32.4 20.3	(0.5) (1.6) (1.4) (1.2) (1.4) (1.1) (1.2) (1.1)	5.9 8.7 14.1 11.2 35.6 29.5 25.8 4.8	(0.5) (1.0) (1.0) (0.6) (1.6) (1.4) (0.6)	1.9 1.4 43 1.8 16.3 17.5 8.9 0.5	(0.3) (0.4) (0.4) (1.0) (1.1) (1.2) (0.3)	0.1 0.8 0.1 2.7 4.5 1.1 0.0	(0.1 (0.3 (0.1 (0.5 (0.5 (0.3 (0.1
	Monte tegro France Fres Qutar Romania Rossian Federation Sechia Shanghal-China Singapore Chinese Taipei	15.9 16.7 13.4 3.1 1.4 1.8 0.1 0.0 0.2	(2.2) (1-2) (0.5) (0.7) (0.3) (0.4) (0.1) (0.0) (0.1)	21.9 22.2 21.2 9.2 5.2 7.2 6.4 0.9 2.0	(2.2) (1.4) (0.6) (7.1) (0.6) (0.6) (0.2) (0.2) (0.4)	263 249 22.1 168 180 3.1 5.3 8.1 27.3	(1.3) (0.8) (1.4) (1.2) (1.1) (0.4) (0.4) (0.8)	20.8 20.3 30.3 28.4 32.0 12.4 14.5 21.0	(1-3) (0.7) (1-6) (1.3) (1-7) (0.9) (0.4) (1.4)	12.0 25.2 28.9 27.9 29.4 27.7 32.4	(0.5) (1.6) (1.4) (1.2) (1.4) (1.1) (1.2)	5.9 8.7 14.1 11.2 35.6 29.5 23.8	(0.5) (1.0) (1.0) (0.6) (1.6) (1.4)	1.9 1.4 43 18 163 17.5 8.9	(0.4) (0.4) (1.0) (1.1) (1.2)	0.1 0.8 0.1 2.7 4.5 1.1	(0.3 (0.3 (0.3 (0.5 (0.5 (0.3 (0.3 (0.1 (0.3

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[Part 1/1]

_	Table 1.2.19	non	-cont	inuo	us te	ats						_											
			All 10	adents			G	nder	Mileren	ces							Perci	nfiles					
		Mean	s score		dard ution		zwa .	6	irla		resce - C)		6	31	och	2	Sth	73	sth	90	odh	9	Sth
		Mean	S.E.	S.D.	S.E.	Mean	S.E.	Mean	S.E.	Scure dif.	S.E.	Score	S.E.	Score	S.E.	Score	S.E.	Score	S.E.	Score	S.E.	Score	8.6
а	Australia	524	(2.3)	99	(1.4)	507	(2.59)	542	(2.7)	-34	(3.1)	352	(3.5)	396	(3.5)	461	(2.5)	594	(2.7)	647	(3,4)	677	(4.0)
ĕ	Austria	472	(3.2)	107	[2.3]	453	(6.7)	491	(4.2)	-38	(5.6)	283	(6.5)	324	(6.5)	400	(5.6)		B-40	601	(3.7)	631	[4.0]
	Belgium Canada	511	(2.2)	105	(1.7)	496	(3.5)	526	(2,8)	-30	(4.6)	321	(6.9)	368	[4:2)	463	(3.6)	588	(2.4)	637	(2.7)	663	[3 2]
	Chile	444	(1.6)	92 85	(1.9)	436	(4.1)	451	(3.4)	-33	(5.1)	367	(5.3)		(4.7)	387	(2.1)	502	(3.3)	552	(2.2)	671 580	(2.8)
	Czech Republic	474	(3.4)	97	(2.7)	453	(4.5)	490	(3.4)	-45	(4.6)	200	18.01	350	(6.4)	412	64.70	543	(3.9)	597	(4.0)	627	(4.4)
	Denmark	493	(2.3)	85	(3.11	479	12 m	506	(2.7)	-27	(B.D)	347	£5.29		(3.9)	436	(2.8)	552	(2.6)	599	0.0	625	(3.6)
	Estonia	512	(2.7)	91	00	491	(3-2)	534	(2.4)	-43	(2.7)	357	(4.9)	394	(4.9)	454	(3.7)	573	(2.8)	624	(3.2)	654	(3.5)
	rinted	535	(2.4)	873	(1.0)	508	(2.6)	562	(2.7)	-54	(2.4)	378	(4.4)	417	(3.8)	478	(2.9)	598	(0.2)	645	(2.9)	670	(2.9)
	France	498	(3.4)	103	(2.8)	479	(43)	517	(3.4)	-38	(3-7)	311	(9.7)	360	(7.3)	435	(5.2)	572	(3.8)	621	(4.0)	649	(5.0)
	Cormany	497	(2.8)	99	(1.8)	478	(3.5)	518	(3.0)	-40	(3.9)	319	(6.2)		(4.7)	432	(4.5)	570	(3.3)	618	(2.6)	643	(3.2)
	Greece	472	(4.3)	95	(2.6)	450	(5.5)	493 503	(3.5) (4.0)	-42 -32	(4.6)	303	(11.3)	363	(9.2)	412	(6.1)	539 554	(2.9)	588	(2-7)	615	(3.2)
	Hungary terland	499	(1.5)	92	(1.4)	478	(2.3)	519	(7.2)	-41	(3.3)	331	(5-0)	371	(4.1)	437	(2.8)	564	(1.7)	616	(3.3)	645	(4.2)
	Ireland	-176	(3.0)	96	62.20	477	[4.3]	516	0.0	-29	(4.6)	327	ED	372	05.94	438	[5.1]	563	C3.00	611	(3.6)	638	64.50
	tenel	467	(3.9)	120	12.50	447	(1.8)	586	(3.7)	-40	[3.89	255	(3.5)	305	(8.0)	355	(5.7)	222	13.80	615	66.33	649	(4.5)
	Italy	476	(1.7)	102	(1.8)	456	(2.5)	458	0.0	-43	63,60	299	64.25	342	(3,3)	410	(2.1)	550	(1.2)	601	41.95	630	(2.0)
	jagan	518	(3.5)	99	(3.0)	499	(5.6)	537	(3.9)	-38	(6.9)	339	(10.3)	388	(7.1)	457	(4.5)	587	(3.1)	636	(4.2)	665	(5.0)
	Korea	542	(3.6)	82	(24)	527	(5.1)	559	(3.7)	-32	(5.5)		(6.5)		(6.2)	491	(4.7)	599	(3.6)	6-3	(3.6)	666	(3.9)
	Luxembourg	472	(7-2)	103	(1.0)	455	(7.9)	189	(1.3)	-34	(2-2)	289	(4-7)	334	B-6)	405	(2-7)	546	(2-0)	597	(2-2)	626	(2-3)
	Mexico Notherlands	424	(2.0)	87	(1.2)	415	(2.3)	434	(2.1)	-20	(1.9)	276	(1 5)	311	(2.5)	367	(2.4)	485	(2.0)	223	(2.4)	560	(2.4)
	New Zealand	514	(5-1)	104	(1.7)	511	(5-1)	527	(5.3)	-25 -44	(2.5)	364	(5.1)		(5.5)	440	(6-4)	582	(5.4)	652	(4.9)	659	(5.5)
	Norway	498	(2.6)	89	(1.4)	477	(3.0)	519	(2.9)	-42	(2.7)	354	(5.4)	381	(6.3)	660	(2.5)	560	(3.3)	608	(3.2)	636	(3.9)
	Poland	496	(2.8)	95	0.6	473	(3 m)	518	(2.9)	-46	0.5		05.75			434	(3:6)	562	(3.2)	614	13.80	645	(3.4)
	Portugal	-588	(3.2)	90	(1.7)	471	(3.7)	504	(3.2)	-33	(2.7)	333	(5.6)	370	(4.7)	430	H-20	550	(3.4)	601	(3.6)	628	(4.4)
	Slovak Republic	471	(2.8)	92	(2.4)	448	(3.3)	495	(1,0)	-47	(5.20)	314	(0.5)	350	(5.2)	410	(3.9)	537.	(3.1)	587	(3.7)	515	(4.0)
	Slovenia	476	[1.1]	88	(0.8)	453	(1.6)	500	(1.5)	-47	(2.2)	320	(2.5)	358	(2.6)	418	(2.1)	540	(1.7)	584	(2.4)	509	(2.4)
	Spain	473	(2.1)	94	(1.2)		(2.5)	487	(2.2)	-29	(2.4)	306	(5.1)		(3.6)	414	(2.5)	538	(2.1)	586	[2.4]	614	(2.5)
	Sweden	498	(2.8)	97	(1.2)	475	60	521	(3-2)	-46	[2-7]	330	(5-2) (6.80	372	(4.5)	439	(3.5)	564	(3.3)	618	(3.5)	650	(4-3)
	Switzerland Turkey	461	(3.8)	94	(1.4)	464	(4.1)	479	(4.3)	-36	(3.0)	313	(6.1)	3.47	(4.3)	404	(6.1)	572	(3.3)	570	(5.1)	596	
	United Kingdom	505	(2.3)	39	[7,49		CIL 69		(T) (D)	-26	04.83		(3.7)				(2.9)		D-10		C3 40		
	United States	103	(3.5)	24	0.49	492	(3.59	514	(3.5)	-22	(3.3)		(5.2)		(6.2)	438	04.73	570	(6.1)		65.21	654	(4.1)
	OFCD total	192	(0:0)	77	(0.5)	473	17.34	307	(2.5)	-30	(8.29)	522	11,21	362	(1.3)	426	(1.3)	5tZ	(1.0	617	(1.4)	047	(625
	OECD average	493	(0.5)	95	(0.3)	475	10.69	519	(0.5)	-36	(0.7)	327	inn	367	(0.5)	431	(9,7)	560	(0.5)	613	(0.6)	639	(0.7)
è	Albania	366	(4.6)	108	(1.9)	339	(5.4)	396	(6.4)	-57	(6.7)	178	σz	223	95.70	294	(5.5)	466	(5.2)	501	(5.7)	534	(5.4)
Partners	Argentina	391	(5-2)	115	(3.5)	376	(5.5)	404	(5:5)	-26	(4.0)	194	(9.5)		(7.9)	316	(5.3)	472	(6.5)	538	(7.0)	574	[7:3]
4	Azerbaljan	351	(4.2)	93	(2.1)	341	(4.7)	360	(42)	-19	(2.9)	193		229	(6.7)		(5.4)	414	(6.5)	469	(4.6)	501	(5.2)
	Brazil	408	(2.8)	97	(1-6)	398	(3.0)	418	(2.9)	-20	(1.2)	253	0.6		(2.9)	342	(2.5)	473	(4.1)	536	(4.6)	572	(2-6)
	Bulgana Colombia	421	(7.2)	123	0.01	393	(5.1)	451	(6.1)	-58	(4.8)	204	(9.2)	255	(10.2)	339	(104)	511	[6 6] [6.1]	573	(6.6)	561	[6:8]
	Creatia	409	(3.0)	90	(2.3)	406	0.0	495	(4.1)	-44	66.80	319		354	(4.2)		65.40	536	0.49	590	(1.6)	613	(6.3)
	Duhai (UAt)	460	(1.3)	111	(1.0)	440	(1.70	480	(1.85	-41	[7.6)	270	(2.46		0.6	383	(1.9)	541	(2.5)	500	(2.50	635	(3.6)
	Hong Kong-China	522	(2.3)	85	(1.5)	510	(3.3)	536	(3.1)	-26	66.40	372	(45)	409	(4.7)	471	(3,3)	583	(2,6)	625	(2.80	649	(3,3)
	Indonesia	399	(4.5)	80	(2.3)	381	(4.6)	416	(4-8)	-35	(4.0)	266	(6-6)	295	(5-7)	346	(4-8)	453	(5-3)	500	(6.1)	529	(6-5)
	Jordan	387	(4.1)	114	(2.3)	356	(6 C)	418	(5-1)	-43	(7.7)	185		237	(6.7)	316	(5.0)	465	(4.1)	528	(5.3)	562	(6.0)
	Kazakhitan	371	(3.9)		(1.8)	347	(4-1)	395	(4.4)	-48	(3.5)	185	(51)		[4.3]	295	(4.6)	448	(4.7)	520	(6 D)	539	(6.7)
	Kyrgyzstan	293	(3.7)	110	(2:2)	269	(4-3)	315 510	(3.5)	-46	(3.2)	113	(61)	154	(S.5) (C.8)	218 428	(4.4)	364	(4.3)	434 596	(6.2)	624	(9.5)
	Liechtenstein	506	(3.7)	86	(1.7) (3.8)	491	(5.8)	523	(4.7)	-49	(7.6)	357	(13.4)		(7.9)	446	(7.3)	573	[6.4]	596	(3.9)	632	(9.5) (9.5)
	Lithumia	467	(2.6)	91	(1.5)	434	03.00	421	(2.0)	-57	(2.7)	310	0.11		(4.2)	ADI	(3.5)	575	D. 10	579	(3.4)	607	[6-5]
	Mecao-China	481	(2-1)	76	(0.8)	467	(11.3)	495	(1.5)	-28	(17,8)	352	(2.5)	381	(2.3)	431	(2.1)	533	0.40	576	(2.00	600	(2.8)
	Montenegro	358	(1.6)	99	[1-3]	374	(2-0)	422	(2.6)	-48	(2.7)	230	(4.2)		(4-1)	333	(3.0)	468	(2.6)	522	(3.5)	553	(4-4)
	Patrama	359	(9.5)	106	(3-3)	345	(6.6)	373	(74)	-27	(6.6)	189	(10.2)		(9.1)		(7 2)	429	(B.0)		(10.1)	541	(10.0)
	Peru	356	(4.4)	105	(2.4)	348	(4.6)	364	(5.4)	-16	(4.9)	184	(4.5)		(4.3)	283	(4.6)	428	(5.6)	490	(7.1)	528	(8:3)
	Qatar	361	(0.5)	124	(0.8)	338	(1.4)	386	(1.1)	-68	(18)	171		208	(1.5)		(1.5)	443	(2 0)	532	(2.3)	561	(2.5)
	Russian Federation	424	(4.5)	96	(2.7)	430	(5.3)	474	(4.0)	-35	(5 t) (5 t)	261 288	(7.2)	298 327	(7.1)	360	(6-1)	492 519	(5.1)	544	(4.6)	573	(6.4)
	Serbia	438	(2.9)	96	(3.2)	418	(3.0)	457	(3.0)	-19	(3.5)	275	(5.2)		(6.6)	175	(4.3)	503	(9.4)	222	(3.5)	585	(5.2)
	Shanghai-China	539		84	(1.7)	522	0.10	357	(2.4)	-35	£1 (0)	394		429	(4.0)	-000	(3.0)	598	(2.3)	643	(3.4)	665	(3.8)
	Singapore	539	(1.1)	95	(1.2)	524	(1.6)	553	(1.5)	-29	(2.2)	373	(3.1)		(3.2)	477	(2.0)	605	(1.9)	656	(2.3)	684	(3:3)
	Chinese Taipei	500	(2.8)	93	(1.9)	483	(4-0)	518	(3.8)	-36	50	337	(6.1)	377	(5.4)		(3.9)	566	(33)	615	(4.1)	642	(4.7)
	Thailand	423	(2.7)	75	(1.9)	406	(3.6)	436	(3.0)	-31	(40)	302	(4.3)		(H-C)	372	(3-6)	472	(2.9)	519	(4.2)	549	(4-8)
	Trinidad and Tobago	417	(1.4)	114	(1.3)	392	(2.3)	441	(2.1)	-50	(3.3)	219	(4.7)		(43)		(3.2)	498	(2.4)	561	(2-6)	597	(4.1)
	Turinia	393 421	(3.3)	705	(1.59	380	(3-4) (3-4)	436	(3.5)	-24	(2.8)	234	(4.8)		(6.5)	330	(3.4)	457	(4.0)	511	(6.1)	543	(5.0)
-	Urugusy	121	(27)	:05	11.79	104	D-49	936	50,20)	-31	D 3]	244	(6.6)	284	_(6.5)	251	15,33	194	(3.4)	253	(e-2)	587	(5.0)

Note: Values that are statistically significant are indicated in bold (see Annex A3). Statistic @cs2* http://do.doz.org/10.1187/888952345385



[Part 1/1]

	Mean performance on the reading scale	using PPPs(*	Cumulative expenditure per student between 6 and 15 years (in equivalent USO converted using PPTs)*	the population in the age group 35-44 years with tertiary education	Proportion of 15-year- olds with an immigrant background	Share of students in their country whose PISA index of economic, social and cultural status is below -1	15-year-old student population	Average inde
Australia	515	37 615	72 386	37.6	19.3	3.4	240.851	0.20
Austria	470	36 839	97.789	19.3	15.2	8.4	87.326	0.05
Belgum	506	34 662	80 145	35.3	148	9.0	119 140	0.15
Canada	524	36.397	80.451	54.2	244	3.7	360 286	0.42
Chile	449	14 106	23 597	25.4	0.5	37.2	247 270	-0.82
Czech Republic	478	23.995	44.761	14.4	2.3	9.2	113.951	-0.33
Deumark	495	36 326	87 642	37.1	8.6	7.2	60 855	0.45
Estonia	501	20 620	43 037	34.6	8.0	6.7	12 978	:0.12
fieland	536	35 322	71 385	43.8	2.6	3.9	61 463	0.62
France	496	32 495	74 659	31.2	13.1	13.9	677 620	0.00
Germany	497	34 (83	63 296	26.7	17.6	8.2	766 993	-0.14
Greece	483	27.798	48.422	26.5	9.0	17.7	93.088	:030
Hungary	494	18 763	44342	19.0	2.1	19.1	105 611	-0.47
Iceland	500	36 325	91.847	36.2	2.4	3.5	4.410	0.68
Ireland	496	44 381	75 924	26.8	5.3	104	52.794	0.45
lead	474	26.644	53 321	45.9	19.7	12.7	103 184	-0.10
Italy	400	31 016	77310	152	5.5	21.4	506 733	-0.23
lapan	520	33 635	77 681	68.4	9.3	7.9	1 113 403	0.71
Korea	519	26 576	63 104	425	0.0	15.0	630 030	0.28
Luxembours	472	82 456	155 624	28.4	40.2	16.1	5 124	0.67
Mexico	425	14 126	21 175	15.7	1.9	58.2	1 305 461	-2.33
Netherlands	508	39 594	80348	32.5	12.1	6.5	183 546	030
New Zealand	521	27 020	48.633	39.9	24.7	8.6	55 129	-0.28
Norwice	503	53 672	101 265	38.4	6.8	2.4	57.367	0.94
Poland	500	16312	39.964	16.6	9.0	20.7	448.866	-0.52
Portugal	489	22 638	56.803	14.5	5.5	33.5	96.820	-0.62
Slovak Republic	477	20 270	32 200	13.9	0.5	10.4	69 274	-0.46
Sevenia	483	26.557	77 898	23.7	7.6	10.7	16 773	-0.03
Souin	481	31 469	74 119	32.6	9.5	29.0	387.054	-0.13
Sweden	497	36 785	82.753	32.0	11.7	5.1	113 054	0.31
Switzerland	501	41 800	104352	36.4	23.5	11:1	89 839	0.26
Turkey	464	13 362	12 705	106	0.5	58.0	757 298	-1.46
United Kingdom	494	34 957	84 899	33.0	10.5	5.6	683 380	032
United States	500	46.434	105 752	43.0	19.5	10.4	3 373 264	0.56

			Adjusted performance	e on the reading scale		
	Reading performance adjusted by GPO per capita	Reading performance adjusted by cannalative expenditure per student between 6 and 13 years	per capita and the percentage of the age group 33-44 years	Reading performance adjusted by the properties of 13-year-olds with an integrant background	Reading performance adjusted by the share of students in their country whose PISA index of economic, social and cultural scatus is below-1	Reading performance adjusted by the size of the 15-year-old student population
Australia	513	584	506	512	502	515
Australia Austria	165	463	455	469	463	470
Selexans	505	508	500	505	499	505
Canada	522	522	492	520	512	524
Chile	457	460	455	452	475	449
Czech Republic	182	484	499	450	472	478
Denmurk	493	490	487	495	486	494
Estania	506	507	494	502	492	500
finland	535	535	518	538	523	535
France	495	494	495	495	495	496
Germany	496	499	502	495	490	498
Greece	485	488	487	483	486	482
Hansary	500	500	509	476	499	494
Iceland	499	494	494	502	487	500
Irriand	490	414	400	496	491	495
israel	476	478	452	471	472	473
Halv	487	404	508	487	493	406
Read	519	518	496	523	512	521
Korna	542	541	522	542	540	540
Luxembourg	457	451	481	464	474	471
Mexico	433	437	46	428	474	427
Netherlands	505	506	507	508	499	508
New Zealand	523	526	507	517	514	520
Norway	494	495	495	504	489	503
Foland	507	508	515	503	507	501
Portugal	193	492	511	491	510	489
Slovak Republic	467	486	496	460	472	477
Slovenia	485	481	493	484	478	482
Spain	491	460	479	461	497	481
Sweden	196	494	496	497	486	497
Switzerland	496	492	495	497	496	500
Turkey	472	478	488	467	513	465
United Kingdom	493	490	492	494	484	495
United States	494	491	485	497	495	506

1. OECD, Education at a Glance 2010. GECD Indicators.



	Table 1.2.21	Country rankings o				
		PISA 2009 reading performance rank	Percent-correct rank based on all PISA 2009 questions	Rank on own preferred new PISA 2009 items and link items from previous assessments	Fercest-correct rank based on new PISA 2009 questions	Rank on own preferred new PISA 2009 questions
0	Australia	8	8	7	7	8
g	Austria	33	35	26	26	30
٥	Belgium	10	10	16	16	10
	Canada	5	5	5	5	5
	Chile	38	30	25	25	24
	Czech Republic	79	31	30	30	33
	Desmark	i m	m m	m	m	m
	Estonia	12	14	12	12	16
	Fieland	1	3	2	2	3
	France	19	20	17	17	10
	Germany	17	15	10	10	19
	Greece	27	29	32	32	29
		22	21			
	Hungary			23	23	21
		m	-	m	m	m
	Ireland	18	16	19	19	12
	Israel	31	33	31	31	32
	Italy	25	.25	27	27	27
	Japan	7	7	6	6	6
	Korea	2	2	3	3	2
	Luxembourg	32	34	35	35	34
	Mexico	41	40	39	39	- 41
	Netherlands	9	9	11	11	9
	New Zealand	6	6		8	7
	Norway	- 11	12	13	13	- 11
	Poland	14	11	21	21	13
	Portugal	23	73	20	20	26
	Slevak Republic	m	m	m	m	m
	Slovenia	26	27	28	28	30
	Spain	26	26	34	34	28
	Swiden	16	18	18	18	28
	Switzerland	13	13	14	14	14
	Turkey	35	37	36	36	38
	United Kingdom	21	22	15	15	22
	United States	15	17	9	9	17
	Albania	51	- 49	40	45	40
LINGER	Argentina	m			m	m
۶	Azerbaijan					
1	Azerbayan Brazil	m 45	45	m 44	m 44	m 44
	Bulgaria	39	39	42	42	35
	Colombia	44	- 64	45	45	45
	Crualia	30	32	33	33	31
	Duhai (UAE)	36	26	29	29	15
	Hong Kong-China	4	4	4	4	4
	Indonesia	49	54	50	50	54
	Jordan	47	46	46	46	46
	Kazaklistan	50	48	49	49	49
	Kyrgyzstan	55	55	55	55	55
	Latvia	m			m	m
	Liechtenstein	m		m	m	m
	Lithuanu	34	36	38	38	37
	Marzo-China	24	24	24	24	25
	Mortenegro	46	50	51	51	51
	Panama	53	53	54	54	52
	Pers	54	52	52	57	53
			51	52	52	
	Qutar	52	51	53	53	50
	Romania					
	Russian Federation	37	38	37	37	43
	Serbia	m	m	m	m	m
	Shanghai-China	1	1	1	1	1
	Singapore	m	-		m	m
	Chinese Taigei	20	19	22	22	20
	Theiland	m	in .	m	m	m
	Trimided and Tobago	43	43	43	48	42
	Tunida Tunida	46	47	47	47	47



[Part 1/1]

	able 1.3.1	. 27001		f studer		ріо									_
								Proficie	ncy levels						
		dictor	Level 1 357.77 points)	(from 3 less than	el 1 57.77 to a 420.07 points)	(from 4 fees than	el 2 20.07 to 6 482.38 points)		82.38 to 8 544.68	(from 5 less the	el 4 44.68 to n 606.99 points)	from 6 less that score	06.99 to n 669.30	Cabove	rel 6 669.3 points
		%	5.1.	%	S.E.	%	S.E.	%	S.E.	5	S.E.	%	5.0.	%	5.0
Australia.		5.1	(0.3)	10.5	(0.5)	20.3	(0.6)	25.8	(0.5)	21,7	(31.6)	11.9	(0.5)	4.5	(0.0
Austria		7.8	(0.7)	15.4	(0.5)	21.2	(0.9)	23.0	(9.9)	19.6	(0.9)	9.9	(9.7)	3.0	(0.5
8 elgium		7.7	(0.6)	113	(0.5)	17.5	(0.7)	21.8	(0.7)	21.3	(0.8)	14.6	(0.6)	5.8	(0.4
Canada		3.1	(0.3)	8.3	(9-4)	18.8	(0.5)	265	(0.5)	25.0	(9.7)	13.9	10.5)	4,4	(0.3
Chile		21.7	(1.2)	29.4	(1.1)	27.3	(1.0)	14.8	(1.0)	5.6	(0.6)	1.2	(0.3)	0.1	(0.1
Czech Republ	lic	7.0	(0.4)	15.3	(0.4)	24.2	(1.49)	24.4	(1.1)	17.4	(0.4)	8.5	10.6)	3.2	(0.4
Denmark		4.9	(0.5)	12.1	(0.6)	23.0	(0.5)	27.4	(1,1)	21.0	(0.9)	9.1	10110	2.5	₹0,
Extenis		3.0	(0.4)	9.6	(0.7)	22,7	(0.9)	29.9	(2.5)	22.7	(0.8)	9.8	(0.8)	2.2	10
Finland France		9.5	(0.3)	13.1	(0.5)	19.9	(0.8)	27.1	(1.1)	27.8	(0.9)	16.7	(0.8)	4.9	40.
Germany		6.6	(0.5)	12.2	(0.7)	15.9	(0.9)	23.1	(0.1)	21,7	(1.0)	13.2	(0.7)	46	(D. (D.
Greece		11.3	(1.2)	19.1	(1.0)	26.4	(1-2)	24.0	(3.7)	11.6	(D.F)	4.9	(0.6)	0.8	40.
Hungary		81	(1-2)	14.2	(0.5)	23.2	(1-2)	26.0	(1,1)	18.4	(1.0)	81	60.60	2.0	(0)
terland		5.7	(0.49	113	(0.5)	21,3	(0.5)	27.3	(10.5)	20.9	(1 ti)	10.5	(0.0)	3.1	40.
treiand		7.3	(0.6)	13.6	(0.7)	24.5	(1.1)	28.6	(1.2)	19.4	(0.59	5.8	(0.7)	0.9	(0.
tenel		20.5	(1.2)	18.9	(0.7)	22.5	(0.5)	20.1	(0.2)	12.0	(0.7)	47	(0.5)	12	40.
Italy		91	(0.4)	15.9	(0.5)	24-2	(0.5)	24.6	(0.5)	12.3	(0.6)	7,4	(0.4)	16	- (0
Japan		40	(0.4)	85	(0.5)	17.4	(0.5)	25.7	(1.1)	23.5	(1.6)	14.7	(0.9)	6.2	40
Korea		1.9	(0.0)	6.2	(6.7)	15.6	(1.4)	24.4	(1.2)	20.3	(1.3)	17.7	(1.0)	7,8	(1,
Luxembourn		2.6	(0.5)	144	(0.5)	22:7	(0.7)	23.1	(1.0)	19.0	10.00	2.0	(0.6)	2.3	10.
Mexico		21.9	(0.8)	28.9	(0.6)	28.3	(0.6)	15.6	10.60	4.7	(0.4)	0.7	(0.1)	0.0	40.
Netherlands		2.8	[0.6]	10.6	(1.3)	19.0	(1.4)	23.9	(1-0)	23.9	(1.2)	15.4	(1,2)	4.4	00
New Zealand		5.3	(0.5)	10.2	(0.5)	191	(0.6)	24.4	ID 59	22.2	(1.60	13.6	(0.7)	5.3	40
Nerway		5.5	(0.5)	12.7	(0.8)	243	(0.5)	27.5	0.0	19.7	[0.50	5.4	(0.6)	1.6	10.
Poland		6.1	(0.5)	14.4	(0.7)	24.0	(6.9)	26.1	(3.6)	19.0	m.m	8,2	[0.6)	2.2	10.
Portugal		8.4	(0.4)	153	(0.70)	23.9	(0.5)	25.0	(1.0)	17.7	(0.6)	7.7	(0.6)	1.9	10.
Slovek Repub	Sec.	7.0	(0.7)	140	(0.6)	23.2	(1.1)	25.0	(1.5)	18.1	(1.2)	91	(0.7)	3.6	€ 0.
Slovenia		6.5	(0.4)	13.8	(9-6)	22.5	(0.7)	23.9	(9.7)	19.0	(0.6)	103	(9.6)	3,9	10
Spain		9.1	(0.5)	14.6	(0.6)	23.9	(0.6)	26.6	(0.6)	17.7	(0.6)	67	(0.4)	1.3	40.
Sweden		7.5	(0.6)	13-6	(9.7)	23-4	(9-6)	25-2	(3-6)	19.0	ED 90	89	19.6)	2.5	10
Switzerland		4.5	(0.4)	9.0	(0.4)	15.9	(0.6)	21.0	(0.5)	21.5	(0.6)	16.3	(DL8)	7.6	(D.
Turkey		17.7	(1.3)	26.5	0.0	25.2	(1.2)	17.4	(1.1)	2.5	80.50	4.4	10.50	1.3	40.
United Kingd	om	6.2	(02.5)	140	(0.7)	24.9	60.51	27.2	0.0	17.9	(1.0)	8.1	40.60	1.5	40.
United States		6.1	(0.7)	15.3	(1.0)	24.4	(1.0)	25.2	0.0	17.1	(0.50	8.0	60.60	1.9	60.
OECD total		93	(0.2)	1155	10.31	22.7	10.59	23.5	80.29	17.3	10,33	5.9	10.20	2.8	100.
OCCD average		8.0	(0-1)	14.0	(0.17	22.0	(6.2)	24.3	(0.2)	18.9	(0.2)	96	(0.1)	3.1	(3)
Albania		40.5	O.M	27.2	(1.2)	20.2	(1.3)	9.1	raura enura	2.6	ETI.63	0.4	fp 23	0.0	10.
Acuentina		37.2	(1.8)	26.4	(1.1)	20.2	(1.1)	109	(3.9)	3.9	[0.7]	0.6	(0.2)	0.1	10.
Azerbainen		11.5	(1.0)	33.8	(1.2)	35.3	(1.3)	14.8	по	3.6	(0.5)	02	(0.3)	0.2	(0
Brazil		38.1	(1.3)	31.0	(0.4)	19.0	(0.7)	81	0.6	3.0	(0.5)	0.7	(0.5)	0.2	(0)
Bulgaria		24.5	(1.5)	22.7	(1.7)	23.4	(11)	17.5	(1.4)	82	(0.5) (0.5)	3,0	10.70	0.8	40.
Colombia		35.6	(1.0)	31.6	(1.3)	20.3	0.30	7.5	(9.7)	1.6	(D 3)	0.1	(0.7)	0.0	10
Croatia		12.4	(0.5)	20.8	(0-9)	26.7	(0.5)	22.7	(1.0)	12.5	E0.50	43	10.50	0.6	10
Duhai (UAE)		17.6	(0.5)	21.2	(0.4)	73.0	(0.6)	19.6	(3.6)	12.1	(C) (C)	53	(0.4)	1.2	10.
Hong Kong-C	hina	2.6	(0.5)	6.2	(0.4)	13.2	(0.7)	71.0	(2.8)	25.6	ED 50	19.9	10.40	10.8	40
Indonesia		43.5	(2.2)	33.1	(1.5)	169	(1.1)	5.6	(2.5)	0.9	ED 30	91	40 f0	0.0	Tes
Jordan		35.4	(1.7)	29.9	(1.2)	22.9	0.0	9.5	10.50	2.1	(0.49	03	10.20	0.0	40
Kazakhstan		29.6	(1.3)	29.6	(0.9)	23.5	(0.5)	12.0	10.60	4.2	60.53	99	40.33	0.3	40
Kyrgyzstan		64.0	0.49	23.0	(3.0)	9.3	(G.8)	3.3	(0.5)	0.7	(D.2)	9.0	40 (D	0.0	
Latvia		5.0	(0.7)	16.7	(1.1)	27.2	(1.6)	28.2	(1.1)	16-4	(1.0)	5.1	(0.5)	0.6	10
Liechtenstein		3.0	(1.0)	6.5	(1.6)	15.0	(2.2)	26.2	(2.3)	31.2	(3.3)	13.0	(2.4)	5.0	(1.
Lithuania		9.0	(0.8)	17.3	(0.5)	26.1	(1.1)	25.3	(1.0)	15.4	(0.8)	5.7	(0.6)	1.3	10.
Maczo-China		2.8	(0.3)	8-2	(0-5)	19.6	(0.6)	27.8	(0.5)	24.5	(9.6)	12.8	(0.4)	4.3	\$0.
Montenegro		29.6	(1-1)	28-8	(1-6)	24.6	(1-0)	12.2	(9.7)	3-8	(0.4)	0.9	(0.2)	0.1	(0.
Panama		51.5	(2.9)	27.3	(1.7)	13.9	(15)	5.6	(0.5)	1.4	(D-4)	04	10.20	0.0	40.
Peru		47.6	(1-40	25.9	(1-2)	16.9	(3.3)	6.8	(9.7)	2.1	(0.4)	0.5	(0.2)	0.1	(0.
Quitir		51.1	(0.6)	22.7	(2.6)	13.1	(0.5)	7.2	(0.5)	4.2	(0.5)	15	(0.2)	0,3	(0)
Romania		195	(1.4)	27.5	(1.1)	28.6	(1/4)	17.3	(1.0)	5.9	(0.8)	1.2	(0.3)	0.1	50
Russian Feder	ation	9.5	(0.9)	19-0	(1.2)	28-5	(1-6)	25.0	(1-0)	12.7	(0.5)	4.3	(0-6)	1.0	40
Serbia.		12.6	(1.6)	22.9	(0.6)	26.5	(1.1)	19.9	(1.0)	9.5	(0.6)	2.9	(0.4)	0.6	40
Shanghai-Chir	na.	1.4	(0.3)	3.4	(0.4)	8.7	(0.6)	15.2	(0.8)	20.8	60.60	23.8	(0.8)	26.6	(1)
Singapore		3.0	(0.3)	6.8	(0.6)	13.1	(0.6)	18.7	(0.15)	22.8	(0.6)	200	(0.5)	15.6	10.
	i	4.2	(0.5)	8.6	(0.4)	15.5	(0.7)	20.9	(0.5)	22.2	(0.5)	17.2	(0.5)	11.3	{1
Chinese Taige		22.1	(1-4)	30.4	(0.5)	27-3	(1-1)	140	(0.5)	4.9	(0.6)	1-0	(0.3)	0.3	40
Chinese Taipe Thailand															
Chinese Taipe	Tobugo	301	(0.6)	23.1	(1.0)	21.2	(0.5)	15.4	(0.6)	7.7	(0.4)	2.1	(0.2)	0.3	
Chinese Taipe Thailand	Tobego	30 1 43 4	(0.8)	23 1 30.2	(1.0)	21.2 18.7	(0.5)	15.4 6.1	(0.6)	1.3	(0.4)	0.2	(0.2)	0.3	(0



						84	ys – Profi	ciency les	ek					
	(below score	Level 1 357.77 points)	(from 3 less that score	n 420.07 points)	(from 4 less that score	el 2 20.07 to n 482.38 points)	less than score	544.68 points)	firsen 5 less that score	el 4 44.68 to n 606.99 points)	firsen 6 less that score	el 5 06.99 to n 669.30 points)	(above score	el 6 669.3 points)
	%	51.	%	5.1.	%	.1.2	%	S.L.	%	S.E.	%	S.E.	%	S.E
Australia	5.2	(0.4)	10.2	(0.6)	19.1	(0.5)	248	(0.4)	22.2	(0.0)	13.2	(9.7)	5.6	(0.3
Austria	6.4	(0.5)	149	(1.2)	19.9	(1.1)	22.6	(1.1)	20.0	(1.2)	11,6	(1.0)	4.3	(0.5
Belgium	6.0	(1.0)	10.8	(0.8)	17.0	(0.9)	20.7	(0.9)	21.1	(1.1)	16.6	(1.0)	7.7	(0.3
Canada	3.1	(0:4)	7.8	(0.6)	17.8	(0.7)	25.1	(1.1)	25.1	(1:0)	15:6	(0.7)	5.5	(0.4
Chile	18.4	(1.3)	27.A	(1-4)	26.0	(1.4)	17.3	(1-4)	7.1	(1.0)	1.6	(0.5)	0.2	(0.2
Czech Republic	6.5	(1.06	14.9	(1.3)	24.4	(1.2)	24.4	(1.6)	17.2	(1.1)	8.5	(0.9)	3.9	(D.6
Denmark	3.9	(0.5)	10.8	(0,6)	21.7	(1.1)	281	(1.6)	21.9	(1.2)	10.4	(1.1)	3.1	(0.3
Extonia	2.7	(0.5)	9.2	(0.6)	21.6	(1.4)	29.6	(1.6)	23.5	(1.2)	11.0	(9.6)	2.4	(0.1
finked	1.27	(02.3)	6.4	(0.7)	16.1	(1.2)	25.8	(1.3)	26.5	(1.1)	17.5	(1.0)	5.9	(0.3
France	9.2	(1.0)	12.4	(8.1)	17.9	(1.8)	22.3	(1.3)	21.0	(1.1)	12.7	(0.1)	4.5	(0)
Germany	5.6	(32-59)	11.6	(0.9)	17.7	(1.2)	22.9	(1,1)	21,4	(1.3)	14.8	(1.0)	6.0	(0.
Greece	10.9	(1-6)	17.5	(1.3)	24.7	(1.7)	23.9	(1.5)	15-2	(1.2)	6.6	(0.0)	1.2	(0.
Hungary	8.0	(1,1)	13.7	(8.3)	22.0	(1.5)	24.7	(1.5)	19.4	(1.4)	9.4	(1.0)	2.8	(0.
tceland	6.3	(0.7)	11.6	(0.9)	19.7	(1-3)	26.D	(1.5)	21.3	(1.2)	11.6	(1.2)	3.6	(D
reland	7.7	(0.9)	1 12.9	(1.1)	22.8	0.9	27.4	(1.5)	21.1	(1.2)	6.9	(0.8)	1.2	(0.
israel	21.8	(1.6)	12.6	(1.1)	19.7	(1.2)	19.4	0.0	13.7	(0.9)	6.1	m.m	1.7	(0.
Italy	8.6	(0.6)	14.9	(0.6)	22.7	(9.7)	23.7	(0.7)	18.6	(0.0)	9.7	(0.6)	2.4	10.
lagan	43	(0.9)	86	(1.0)	16.7	(3.3)	23.0	(1.2)	23.3	(1.3)	16.5	(1.2)	7.6	(1.
Jagan Korra	2.5	(0.5)	6.6	(1.2)	14.5	(1.4)	23.5	(1.6)	25 1	(1.7)	185	(1.4)	2.0	- (1
Lusersbourg	9.3	(0.8)	12.9	(1.0)	20.4	(1.4)	22.5	(1.1)	29.2	(1.1)	11.3	(1.0)	3.5	40.
Mexico	20.1		27.4	(0.0)	28.4	(0.4)	17.1	(0.7)	5.9		0.9		0.1	(0)
Messeo Netherlands	20.1	(0.5)	9.1		18.0	(1.6)	26.1	(0.7)	23.8	(0.5) (1.6)	17.0	(0.2)	5.9	10
				(1.5)										
New Zealand	5.6	(0.4)	101	(1,1)	16.2	(1.3)	22.6	(1.2)	22.0	(1.2)	14.6	(1.0)	6.6	(0)
Norway	5.9	(3.6)	12.1	(1.0)	23.6	(1.0)	269	(1.2)	19.9	(1.0)	9.4	(0-7)	2.1	(0
Poland	6.7	(0.7)	14.5	(1.1)	22.7	(1.1)	25.1	(1.2)	19.3	(1.0)	5.9	(0.0)	2.8	(0)
Portugal	8.0	(0.7)	14.6	(1.2)	22.3	(1.3)	248	(1.4)	16.9	(1.0)	8.7	(0.8)	2.6	(0)
Slovak Republic	7.0	(0.8)	14.4	_(1.1)	23.0	(1.3)	243	(2.3)	17.5	(1.8)	9.3	(0.9)	4.5	(0)
Slovenia	7.0	(0.5)	13.9	(0.6)	21.8	(0.9)	23.0	(0.9)	19.2	(1.1)	11.0	(1.0)	4.1	(0
Spain	7.9	(0.6)	13.5	(0.7)	22.6	(0.8)	26.3	(0.9)	19.5	(0.8)	8.4	(0.5)	1.8	(0.
Sweden	8.5	(0)-89	12.9	(0.5)	23-3	(1.0)	25-2	(1.3)	16.3	(1.2)	9.1	(0.0)	2.8	(0)
Switzerland	3.9	(0.5)	8.4	(0.7)	14.5	(0.7)	21.5	(1.1)	23.6	(1.2)	17.9	(1.0)	10.1	(1.
Turkey	16.6	(1:49	23.8	(1.4)	24.9	(1.2)	17.8	(1.2)	10.4	(1.1)	5-D	(1.1)	1.5	(0
United Kingdom	53	(02.6)	12.2	(0.9)	22.8	(1.1)	27.0	(1.3)	20.0	(1.4)	10.3	(1.0)	2.5	(0.
United States	6.8	(0.7)	13.8	(1.0)	22.9	(1.1)	25.2	(1.3)	19.5	(1.2)	9.3	(1.0)	2.5	(0.
OECD total	8.4	- 00.23	746	09:45	21.6	32.49	23.2	80.35	18.4	90.49	10.2	10.31	56	90.
OCCD average	7.6	(0.1)	133-	(0.2)	21.0	PA 25-	23.8	(0.21)	1983	(9.2)-	10.8	(0.2)	3.8	in
	1													
Albania	43.5	(2.2)	25.5	(1.5)	16.6	(1.7)	9.0	(0.1)	2.6	(0.9)	0.5	(0.2)	0.0	(0)
Argentina	34.9	(2.0)	263	(1.5)	21.0	(1.2)	11.5	(1.2)	5.2	(0.1)	1,0	(0.4)	0.1	(0
Azerbaijan	10.5	(1.2)	31.6	(1.5)	365	(1.6)	166	(1.3)	3.8	(0.6)	0.8	(0.3)	0.2	(0)
8mzil	34.2	(1-5)	31-6	(1.3)	20.4	(1.1)	9.0	(0.7)	3.7	(0.4)	1.0	(0-3)	0.1	(0
Bulgaria	25.5	(2.1)	22.7	(1.2)	22.6	(1.3)	16.9	(1.5)	8.2	(1.1)	3.3	(0.7)	0.9	(0,
Colombia	30.6	(2.3)	31.8	(3.5)	24.0	0.75	198	(1.0)	2.5	(0.5)	0.2	(0.1)	0.0	(0)
Croatia	11.6	(0.25	20.2	(1.2)	25.7	(1.1)	22.7	(1.2)	13.6	(1.1)	5.3	(0.7)	0.8	{D.
Dubei (LMI)	19.3	(0.7)	20.5	(0.9)	20.8	(D,6)	18.2	(0.9)	13.1	(0.7)	6.4	(0.6)	1.6	(0)
Hong Kong-China	2.6	(0.6)	5.7	(3.6)	12.4	(1.2)	203	(1.2)	25.0	(1:1)	21.2	(1.2)	12.7	(1)
Indonesia	445	(2.6)	326	(2.2)	15 8	(1.3)	59	(1.0)	1.1	(0.4)	01	(0.1)	0.0	
tordan	35.1	(2.4)	29.8	(1.9)	23.2	(1.7)	9.4	(1.1)	2.2	(0.6)	0.3	(0.2)	0.0	10
Kazakhstan	30.2	(1,5)	29-1	(83)	22-7	(1.1)	12.2	(0.9)	4.6	0.6	0.9	(0.3)	0.3	10
Kyrgyzstan	1 65.7	(1.4)	29.7	(1.4)	2.3	(0.5)	3.5	(9.7)	0.5	(0.4)	0.1	(0.1)	0.0	
Latvia	6.5	(0.0)	16.7	(1.5)	26.5	(1.4)	27.0	(1.3)	16.0	(1-2)	5.8	(D 0)	0.8	(0)
Liechtenstein	1 18	(1.4)	5.9	(2.6)	13.2	0.00	249	(3.8)	32.7	(6.9)	148	(6.1)	6.7	(2
Lithousia	9.9	(1.1)	18.2	(1.1)	25.9	(1.7)	242	0.49	14.7	(1.0)	5.8	(0.6)	1.3	(0)
Maczo-China	1 28	02,49	2.8	40.63	183	(0.96	26.5	(1-2)	24.9	0.91	14.3	(0.7)	5.4	100
Montenegro	78.0	(1.3)	27.6	(3.5)	25.3	(1.4)	13.0	(1.2)	4.9	(0.5)	1.3	(0.3)	0.1	(0
Montenegro Panama	19.9	(3.06	29.3	(2.3)	13.9	(1.4)	4.9	(1-2)	1.4	(0.5)	0.5	(0.3)	0.0	60
Peru	44.5	(2.1)	29.3 26 D	(1.3)	18.2	(1.4)	77	(0.0)	2,6	(0.5)	0.6	(0.3)	0.2	(D
Outer	52.5	(2.1)	21.0	(0.3)	18.2	(0.7)	7.3	(0.5)	4.6	(D 6) (D,4)	1.9	(5.2)	0.2	
														(0
Romania	26.0	(1.89	26.9	(1/2)	27.3	(1.7)	17.6	(1.6)	6.6	(1.1)	1.6	(D.5)	0.1	(0)
Russian Federation	10.1	(1.2)	18.2	(1.5)	26.1	(1.3)	25.0	(13)	13.0	(0.9)	4.5	(0-6)	1.1	(0
Serbia	16.8	(1-3)	22.4	(14)	25.4	0.49	19.6	(13)	11.0	(1-0)	3.9	(0.7)	0.9	40
Shanghai-China	1.6	(0.4)	3.9	(0.6)	8.9	(0.5)	15,4	(1,1)	19.9	(1.2)	23.2	(1.1)	27.1	- (1
Singapore	3.4	(0.4)	6.8	(2.6)	12.3	(0.6)	16.0	(1.0)	22.6	(0.9)	20.0	[1.2]	16.9	{1
Chinese Tripei	4.7	(0.7)	8.4	(D-6)	15.1	(10)	19.2	(1.0)	21.5	(1:2)	15,4	(1.3)	12.6	(1
Theiland	22.7	(1-6)	28-7	(1-3)	26.9	(1-6)	14.9	(1-2)	5.6	(9-8)	1.0	(0.3)	0.3	(0
Trinidad and Tobago	31.6	(1.3)	23.4	(1.6)	29.5	(1.2)	14.7	(1.0)	7.3	(9.6)	2.1	(0.5)	0.2	(0
Tutisia	41.0	(1.4)	28.3	(1.6)	29.4	(1.3)	8.0	(1.1)	18	(0.6)	0.4	(0.3)	0.0	10
														(0



[Part 2/2]
Table 13.2 Percentage of students et each proficiency level on the methemetics crele, by gende

	Table 1.3.2	Percer	tage of	fstuder	nts et e	ach pro	ficienc	y level o	on the	methen	netics s	cele, by	gende	,	
							c	irls – Profi	ciency lev	ek					
		theless	Level 1 r 357.77 points)	(from 3 less than	el 1 57.77 to a 429.07 points)	(from 4 less than	rel 2 120.07 to n 482.38 points)			(from 5 less that	el 4 44.68 to n 606.99 points)	please that	el 5 06.99 to n 669.30 points)	(above	rel 6 669.30 points)
		76	St.	%	1.2	5	1.2	5	S.L.	%	5.1.	%	S.E.	%	S.t.
8	Australia	5.0	(0.4)	11.3	(0.7)	21.4	(0.7)	26.7	(0.7)	21.2	(0.7)	10.6	(0.4)	3.6	(0.5)
š	Austria	9.1	(1.1)	16.0	(1.3)	22.4	(1.4)	23.5	(1.3)	19.2	(1.2)	8.1	(0.9)	1.8	(0.4)
•	Selgium	9.5	(0.5)	11.9	(0.7)	17.9	(0.9)	22.9	(8.0)	215	(1.0)	12.4	(0.7)	3.9	(0.5)
	Canada	3.2	(0:4)	8.9	(0.5)	19.8	(0.6)	27.9	(1.1)	24.8	(1.0)	12.2	(0:6)	3.3	(0.3)
	Chile	25.1	(1.6)	31.4	(1-1)	26.5	(1.2)	12.1	(1.2)	4.1	(0.7)	0.8	(0.2)	0.0	(0.0)
	Czech Republic	7.3	(1.06	15.8	(8.1)	24.0	(1.2)	26.6	(1.4)		(1.1)	8.4	(0.6)	2.4	(0.4)
	Denmark	3.4	(0.7)	10.1	(1.1)	24.3	(1.3)	30 5	(1.5)	20.1	(1.2)	7.7	(0.8)	1.9	(0.4)
	finked	1 17	(0.7)	58	(1 0)	150	(1.7)	28.4	(1.2)	21.8	(1.2)	160	(1.1)	3.9	(0.5)
	France	9.7	(1.0)	13.7	(3.4)	21.7	(1.3)	253	(1.6)	19.3	(1.5)	8.2	(1.1)	2.1	(0.6)
	Germany	7.3	(0.49	12.9	(1.0)	19.8	(1.0)	23.3	(1.2)	22.0	(1.1)	11.6	(1.2)	3.2	(0.5)
	Greece	11.6	(1.3)	20.5	(1.3)	28.0	(1.4)	24.1	(1.1)	12.0	(9.9)	3.3	(0.6)	0.5	(0.2)
	Hungary	82	(1.3)	147	(1.4)	245	(1.5)	27.3	(1,5)	17.3	(1.3)	69	(0.5)	3.1	(0.3)
	trelead	5.1	(0.7)	11.0	(0.8)	22.8	(1.0)	28.6	(1-3)	20.5	(1.5)	24	(8.0)	2.7	(0.5)
	treland	6.8	(0,7)	14.2	(1.0)	26.3	(1.3)	29.8	(1.6)	17.7	(1.3)	4.6	(0.6)	0.5	(0.2)
	Israel	193	(1.2)	20.2	(1,2)	25.3	(1.1)	29.7	(3.2)	10-4	(0.9)	3.3	(0.5)	0.6	10.30
	Italy	9.5	(0.6)	16.9	(0.7)	25.7	69.71	25.6	(0.7)	16.0	(0.7)	5,5	(0.4)	0.8	(0.1)
	Jagan	3.6	(0.6)	8.4	(1.0)	18.2	(1.3)	28.6	(1.5)	23.7	[7.3]	12.7	(1.1)	4.7	(1.0)
	Korea	1.3	(0,4)	5.7	(0.7)	16.5	(1.4)	25.4	(1.5)	27.7	(1.5)	16.9	(1.3)	6.5	(1.0)
	Lusembourg	9.8	(1.0)	15.9	(0.9)	25.1	(1.0)	23.7	(1.6)	17.7	(1.1)	6.6	(0.6)	1.2	(0.3)
	Mexico	23.7	(0.9)	30.3	(0.7)	26.1	(0.7)	14.0	(0.6)	3.4	(0.3)	0.4	(0.1)	0.0	(0.0)
	Netherlands	3.5	(0.9)	12-1	(1-6)	19.9	(1.6)	23-7	(1.5)	24.1	(1.4)	13.9	(1-4)	2.9	(0.5)
	New Zealand	4.9	(0.6)	10.2	(1.6)	20.0	(1.2)	26.2	(1.2)	22.5	(1.2)	12-4	(1/1)	3.8	(0.6)
	Norway	5.1	(0.6)	13.2	(1.0)	25.1	(1.4)	28.2	(1.3)	19.5	(1.1)	7.4	(0.8)	1.5	(0.4)
	Poland	5.6	(0.7)	14.3	(1.1)	25.3	(1.2)	27.1	(1.4)	16.7	(1.3)	7.5	(0.0)	1.5	(0,4)
	Portugal	8.7	(0.7)	16.0	(0.1)	25.5	(1.1)	25.2	(1.1)	16.6	(1.0)	6.8	(0.7)	1.2	(0.3)
	Slovak Republic	7.0	(0.8)	13.7	(1.2)	23.3	(1.6)	25.7	(1.4)	18,8	(1,2)	8.9	(0.9)	2.7	(0.4)
	Slovenia	6.0	(0:7)	13,7	(1.2)	23.1	(1.1)	249	(1.1)	16.9	(1.1)	9.7	(0.9)	3 6	(0.6)
	Spain	10.4	(0.7)	15.7	(0.6)	25.4	(0.5)	26.9	(0.8)	15.8	(0.8)	5.0	(0.4)	0.8	(0.2)
	Sweden Switzerland	6.5		14.3	(1.0)	23-5	(1.4)	25-3 24.5	(1.5)	23.3	(0.9)	14.6	(0.6)	2.2 5.5	(0.5)
	Turkey	18.0	(0.5)	25.2	(0.5)	25.5	(0.9)	17.0	(1.2)	8.0	(1.0)	3.8	(1.0)	1.0	(0.7)
	United Kingdom	7.2	02-63	15.6	(1.3)	26.9	(1.2)	27.4	(1.4)	15.8	(1.2)	6.0	(0.7)	1.1	(0.5)
	United States	9.5	(1.0)	16.8	(1.4)	26.0	(1.2)	25.2	(1.3)	14.5	(1.1)	6.7	(0.9)	1.2	(0.5)
	OECD total	10.1	10.38	16.5	(0.5)	23.9	33-47	23.9	(0.4)	16.2	00.33	2.5	10.31	2.00	(0.5)
	OCCD average	84	(0.2)	14.7	(0-2)	23.1	P.21	24.9	(0.2)	16.6	(0,2)	8.4	(0.3)	2.2	(0.1)
e	Albania	37.3	(1.5)	29.0	(1.5)	21.6	(1.5)	9.1	(0.1)	2.7	(0.5)	0.3	(0.2)	0.0	c
Partners	Argentina	39.1	(2.1)	26.5	(1.2)	20.6	(1.4)	10.3	(1.1)	2.8	(0.6)	0.6	(0.2)	0.1	(0.1)
ē	Azerbaijen	12.5	(1.1)	36.1	(1.6)	34.1	(1.8)	12.9	(1.4)	3.3	(0.6)	0.9	(0.4)	0.2	(0.1)
	Brazil	41.6	(1-5)	30-4	(1.0)	17.7	(0.6)	2.4	(8-0)	2.3	(0.4)	0.5	(0.2)	0.0	(0.0)
	Bulgaria	23.3	(2.1)	22.6	(13)	24.4	(1.4)	181	(1.6)	8.2	(0.1)	2.8	(0.9)	0.6	(0.3)
	Colombia	463	(2.1)	31.4	(3.6)	16.9	(1.6)	4.5	(9.7)	0.8	(0.3)	0.0	[0.0]	0.0	c
	Creatia	13.2	(1.3)	21.4	(1.4)	27.9	(1.2)	22.6	(1-4)	11.2	(1.1)	3.2	(0.6)	0.4	(0.2)
	Dubei (LMI)	15.9	(0.6)	22.0	(1.2)	25.3	(1.2)	21.D	(0.9)	11.0	(0.9)	4.0	[0.5]	0.8	(0.3)
	Hong Kong-China	2.5	(0.5)	6.7	(0.7)	14.2	(1 0)	23 8	(1.2)	258	(1:2)	18.4	(1.1)	8.6	(0.9)
	Indonesia	42.6	(2.6)	33-7	(2.2)	180	(1.6)	5.0	(10)	0.8	(0.3)	0.0	(0.0)	0.0	c
	jordan	35.7	(2.4)	29.9	(1.7)	22.6	(1.4)	9.5	(1.4)	2.0	(0.5)	0.2	(0.2)	0.0	c
	Kazakhstan		(1.7)		(1.4)	9.4	(1.3)		(1.1)	3.8	(9.5)		(0.4)	0.2	(0.2)
	Kyrgyzstan Latvia	5.2	(1.7)	22.8	(1.4)	27.9	(1.0)	293	(0.5)	15.9	(0.2)	0.0	(0.0)	0.0	(D.2)
	Liechtenstein	5.2	(1.6)	7.3	(2.6)	17.0	(1.4)	27.8	(1.4)	29.6	(4.4)	11.0	(0.6)	3.1	(1.7)
	Liechtenstein	8.1	(17.5)	163	(1.2)	26.3	(1.1)	26.6	(1.2)	29.0	(1.0)	5.6	(2.8)	1.3	(0.4)
	Marzo-China	2.8	(0.5)	8.5	(0.7)	26.3	(0.1)	29.1	(1.2)	26.1	(1.0)	11.6	(0.9)	3.2	(0.4)
	Maczo-China Montenegro	31.4	(3.4)	10.0	(1.3)	23.9	(0.9)	11.4	(0.1)	261	(1.1)	0.5	(0.8)	0.0	(0.4)
	Panama	53.0	(1.4)	25.3	(1-3)	13.0	(1.2)	62	(0.9)	1.4	(0.4)	0.2	(0.2)	0.0	(0.1)
	Peru	50.0	(2.1)	25.8	(1.5)	15.6	(1.2)	6 P	(0.0)	1.5	(D-4)	0.2	(0.2)	0.0	(0.1)
	Outer	1 49.6	(0.6)	24.5	(0.7)	13.9	02:60	7.1	(0.4)	3.7	(0.3)	10	(0.2)	0.2	(0.1)
	Romania	19.1	(1-6)	28.1	(8.9)	29.8	(1.5)	169	(1.3)	52	(1.0)	0.8	D 49	0.0	(0.1)
	Russian Federation	9.0	00-99	19.8	(1-2)	28.9	(1.2)	25.0	(1.2)	12.4	(1.1)	4.0	(0.6)	0.8	(0.3)
	Serbia	18.5	(1.3)	23.5	(1.2)	27.6	(1.2)	20.3	(1.1)	8.0	(0.7)	1.9	(0-4)	0.3	(0.2)
	Shanghai-China	1 13	(0.3)	3.0	(0.5)	85	(0.6)	15.0	(1.2)	21.6	(1.0)	24.6	(1.0)	26.2	(1.5)
	Sngpore	2.6	(0.4)	6.8	(0.4)	13.9	(0.6)	19.4	(1.1)	23.0	(0.9)	20.0	(1.1)	143	(0.9)
	Chinese Tripei	3.6	(0.5)	8.7	(0.4)	16.0	(1.1)	22.7	(1.5)	22.9	(1.3)	16.1	(1.3)	10.0	(1.6)
	Theiland	21-7	(1-5)	31-7	(1-5)	27-6	(1-8)	13-4	(1-1)	.64	(9.7)	0.9	(0.3)	0.2	(0.2)
	Trinidad and Tobago	285	(0.6)	22.8	(1.1)	22.0	(1.6)	161	(0.9)	81	(9.6)	2.1	(0.3)	0.4	(0.2)
	Tunisia	45.6	(2.1)	31.8	(2.0)	17.2	(1.3)	4.5	(0.6)	0.9	(0.5)	0.1	(0.1)	0.0	(0.0)
	Uruguny	24.1	(1.4)	26.1	(1.5)	25.4	(1.7)	16.0	(1.3)	6.6	(3.7)	1.6	(0.4)	0.2	(0.1)

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		Mean	score		idard ation		pys.		iris	(8	rence - G)	9	ń	16	ith .	21	ith	7	Sth	91	ith	9	5th
		Mean	S.E.	S.D.	S.E.	Mean	S.E.	Mean	S.E.	Score dil.	S.E.	Score	S.E.	Score	S.E.	Score	S.E.	Score	S.E.	Score	S.E.	Score	S.E.
a	Australia	514	(2.5)	91	(1.4)	519	(3.0)	509	(2.8)	10	(2.5)		(3.3)	392	(2.8)	451	(2.5)	580	(3:1)	634	(3.5)	665	[5.0]
ž	Austria	496	(2.7)	-96	(2.0)	506	(3.4)	486	(4.0)	19	(5.1)	338	(6.6)	570	(4.4)	425	(3.5)	566	(3.5)	620	(3.5)	650	(3.5)
ď	Belgium	515	(2.3)	101	(1.8)	526	(3.3)	504	(3.0)	22	(4.3)	335	(5.3)	373	(4.9)	444	(3.1)	593	(2.4)	646	(3-0)	675	(3.2
	Canada	527	(7.6)	- 66	(1.0)	533	(2.0)	521	(1.7)	12	(7.8)	379	(3.0)	413	[2.7]	468	(5.0)	588	(1.9)	638	(2.2)	665	(22
	Chile	421	(3.1)	80	(1.7)	431	(1.7)	410	(3.6)	21	(4.1)	293	(4.0)	322	(3.8)	365	(1.1)	473	(4.2)	527	(5.1)	559	(5.8
	Czech Republic	493	(2.00	93	(1 a)	495	G 90	490	(X C)	- 5	(4.1)	342	(5.6)	374	(4.3)	4.28	(1.5)	557	(3 (3)	615	(4.3)	649	(4.7
	Denmark	503	(2.6)	87	(1.3)	511	(3.0)	495	(2.5)	16	(2.7)	358	(4.4)	320	(40)	445	(3.1)	564	(3.3)	614	(3.4)	664	(16
	Estonia	512	(2.6)	81	(1.6)	516	(2.5)	508	(2.5)	. 9	(2.6)	378	(6.0)	409	(3.5)	458	(3.7)	567	(2.7)	616	(3.6)	643	(3.6
	Finland	541	(2.2)	82	(1.1)	542	(2.5)	539	(2.5)	3	(2.6)	399	(4.4)	431	(37)	487	(3.0)	599	(2.5)	644	(2.6)	669	(3.6
	France	497	(3.1)	101	(2.1)	505	(3.8)	489	0.49	16	(3.0)	321	(5.9)	361	(6.3)	429	(4.8)	570	(3.7)	622	(3.9)	652	(5.4
	Germany	513	(2.9)	98	(1.7)	520	(3.6)	505	(3.3)	16	(3.9)	347	(5.00)	380	(9.7)	443	(4.4)	585	(3.1)	638	(3.5)	666	(3.7
	Creece	465	(3.5)	89	(2.0)	473	[5.4]	459	(3.3)	14	(4.2)	319	(7.3)	352	(5.5)	406	(4.4)	527	(3.4)	550	(4.1)	613	(4.4
	Hungary	490	(3-5)	92	(2.8)	496	(4.2)	484	(3.5)	12	(4.5)	334	(8.4)	370	(7.1)	428	(4.5)	554	(4.5)	608	(5.6)	637	(5.6
	Iceland	507	(1.4)	91	(1.2)	508	(2.0)	505	(1.5)	3	(2.8)	352	(4.1)	388	(3.4)	447	(2.0)	569	(2.0)	623	(2.8)	652	(3.3
	Ircland	187	(2.5)	85	(1.6)	491	(3.4)	483	8.0	8	6.9	338	(5.7)	376	04.49	432	(3.1)	548	(2.8)	591	(3.1)	617	44.3
	Israel	447	(3.3)	104	(2.4)	451	(4.7)	443	(3.3)	8	(4.7)	272	05.79	370	46.1)	374	(4.6)	520	[4.2]	581	(5.2)	615	(5.2)
	Italy	483	(1.50	93	0.21	490	(2.3)	475	(2.2)	15	0.71	330	0.19	353	0.49	420	(1.9)	548	(2.5)	602	(2.5)	632	(2.8
	Japan	529	(3.3)	94	12.21	534	(5.3)	524	(3.2)	2	(6.5)	370	06.40	407	(5.4)	468	(4.4)	595	(3.7)	648	64.80	677	65.4
	Korra	546	64.00	222	(2.5)	San	16.75	544	(4.5)	3	(7.4)	397	95.40	430	(6.20	405	(5.3)	609	(4.3)	659	64 50	689	(6.5
	Lungrabourg	489	11.25	98	(1.21	499	12.00	429	(1.35	19	0.49	324	(3.95	360	D.D	423	41.75	560	(2.2)	613	12.50	643	02.5
	Mexico	419	(1,89	79	d n	425	(2.1)	412	(1.9)	14	(1.5)	289	(3.2)		0.6	366	(2.2)	472	(2.1)	520	(2.6)	547	(3.3
	Netherlands	526	(4.7)	89	(1.7)	534	(4 fb)	517	(5.1)	17	12-0	378	(5.6)	406	(5.6)	460	(6.8)	593	(4.4)	640	(4.4)	665	(3.9
	New Zealand	519	(2.3)	95	(1.5)	523	(3-2)	515	(2.9)		(5.1)	355	65 99	392	(4.4)	454	(2.5)	589	(3.1)	642	(3.5)	673	0.4
	Norway	498	12.40	85	(7.71	500	(2.7)	495	(2.6)	-	(2.7)	354	(4.1)	387	(3.6)	441	(3.2)	557	(2.9)	608	(3.4)	636	(4.0
	Poland	495	12.80	88	(1.4)	497	0.03	493	CS 25	-	D 63	148	(5.1)	380	CS 80	434	(3.3)	557	63.23	600	44:1)	638	66.6
	Portugal	487	(2.50)	91	(1.5)	493	(3.3)	481	(3.1)	12	(2.5)	334	(3.6)	367	(3.5)	424	(3.4)	551	(3.4)	605	(0,0)	635	(5.1
	Slovak Republic	197	(3.1)	96	(2,4)	498	(3-7)	495	3.0	12	(3.6)	342	06,33	376	(4.7)	432	(3.7)	561	(3.9)	621	(5.4)	654	
	Slovenia	501	(1.2)	96	02.50	500	0.81	501	(1.7)	3	(2.6)	345	(3.6)	379	(2.4)	435	(2.5)	569	(2.3)	628	(S/5)	659	(3.6
		483		93		493	(2.3)	474		19		378	(3.6) H.(B)	3/9		424		546		597			
	Spain Sweden	493	(2.1)	91	(1.1)	493	(2.3)	474	(2.5)	19	(2.2)	326	(4.4)	364	(2.9)	424	(2.5)		(2.3)	597	(2.3)	625	(2.5
															(4.2)			560			(3.9)	643	
	Switzerland	534	(3.3)	29	(1.6)	544	(3.7)	524	(3.4)	20	(3.0)	363	(0.8)	401	(3.6)	468	(6.2)	604	(3.5)	658	(6.1)	689	64.6
	Turkey	445	(4.4)	93	(3.0)	451	(4.6)	440	(5.6)	11	(5.1)	304	(5.2)	331	(3.6)	378	(3.8)	506	(6.3)	574	[9.0]		
	United Kingdom	492	(2.4)	87	(7.2)	503	(3.2)	452	(3.3)	20	(4.4)	348	[3.4]	380	(3.1)	434	(3.0)	552	(3.2)	606	(3.5)	635	0.2
	United States	487	(3-6)	91	[1-6]	497	(4.0)	477	(3-8)	29	(3-2)	337	(4.3)	368	(4.3)	425	(3.9)	551	[4.9)	607	(4-6)	637	(5.6)
	OECD total	1466	(2.2)	92	(0.5)	196	(1.3)	461	(2.3)	15	(1.5)	329	11.59	362	(1:0)	423	(1.4)	357	(1:5)	615	11.60	647	(1.0)
	OECD average	496	(0.5)	92	(0,3)	505.	(0.6)	490	(0.4)	12	(0,5)	HB	40,95	37%	10.7)	433	(0.6)	560	(0.5)	613	40.79	643	(0.8)
	Albunia	377	64.00	91	(2.2)	372	(4.7)	181	65.29	-11	66.13	226	(7.0)	261	25 D	317	(5.2)	438	[4.8)	493	(5.7)	576	16.3
	Argentina	3.68	64.55	93	12.60	194	54.55	383	(6.0)	10	(3.4)	231	0.45		05.00	327	64.33	651	rs m	500	(7.1)	545	[7]
	Azerbañan	431	42.60	64	(2.2)	435	(3.1)	427	60	8	(2.7)	334	0.0		(2.7)	387	(2.9)	469	(3.2)	512	(5.2)	541	01
	Brazil	386	(2.45	81	(1.6)	194	17.45	379	0.8	16	0.7	261	G.O	287	0.7	331	(2.3)	435	(3.3)	493	(4.7)	531	15.
	Bulgaria	428	45.50	99	(2.8)	426	(6.2)	430	05.09	-4	B.71	269	65.90		(5.8)		(6.2)	496	(6.6)	555	19 00	593	(12)
	Colombia	381	(3.2)	75	(1.7)	160	(4.0)	366	(3.3)	32	B.S.	209	(5.8)	286	(5.1)	330	(4.0)	431	(3.4)	470	44.25	909	140
	Croatia	460	(3.1)	80	(1.0)	445	(7.6)	454	(3.3)	17	(4.4)	315	6.8		(4.7)	399	(3.5)	521	(3.8)	574	(5.4)	606	(5)
		453	(1.1)	99	(0.9)	454	(3.5)	451	(1.6)	11	(2.2)	794			(2.6)	381	(2.3)	523	(2.1)	584	(3.3)	619	G.
	Dubai (UME)												(J-1)										
	Hong Kong-China	355	(2.7)	95	(1.8)	561	(4.2)	547	(3.4)	14	(2.0)	390	(5.3)		(4.9)	492	(3.5)	622	(3.1)	673	(3.59)	703	(4:
	Indonesia	371	(3-7)	70	(23)	371	(4.1)	372	(4 0)	-1	(3-2)	260	(49)		(4.6)	324	(3.7)	416	(4.6)	462	(6-4)	493	(35)
	Jordan	387	(3.7)	83	(2.6)	386	(5.1)	387	(12)	0	(7.1)	249	(7.5)		(4.8)		(1.5)	443	(4.4)	490	(5.5)	520	(6
	Kazakhstan	405	(3-0)	83	(2.3)	405	(3-1)	405	(3.3)	-1	(2.5)	276	(6.3)		(3,3)	347	(3.5)	458	(4.3)	514	(5.3)	548	0.4
	Kyrgyzitan	331	(2.9)	81	(2.1)	328	(3.4)	334	(2.8)	-6	(2.3)	204	(4.5)		(3.9)		(3.2)	382	(3.8)		(5.3)	473	01
	Letvia	482	(3.1)	79	(1.4)	483	(3.5)	481	(3.4)	2	(3.2)	352	(4.5)		(4.5)	427	(3.7)	537	(3.8)	584	(3.8)	612	(3
	Liechtenstein	536	(4.1)	88	[4:4]	547	(5.2)	523	(5.5)	24	(7.6)	394	(17.8)		(8.9)		(7.9)	593	[5.4]		(11:4)	670	(14
	Lithuania	477	(2.6)	88	(1.8)	474	(3-1)	480	(3-0)	-6	(34)	332	(5.3)		(4-2)	417	0.0	537	(3-1)	590	(4.0)	621	15:
	Maczo-China	525	(0.9)	85	[0.5]	531	(1.3)	520	(1.4)	11	(2.0)	362		415	(2.7)		(8.6)	584	(1.3)	634	(1.6)	663	12:
	Montenegro	403	62-60	85	(1-5)	108	(2.2)	396	(24)	12	(2-2)	263	(6.1)	295	(4.49	346	(2-8)	458	(2.2)	509	(2.7)	543	В.
	Panama	310	(5.2)	81	(3-2)	342	(5,6)	357	(6.1)	5	(5.0)	235	(8.7)	261	(7.0)	306	(5.4)	408	(6.8)	466	60.40	500	60
	Peru	365	(4.0)	90	(2.4)	374	(4.6)	356	(4.4)	18	(4.0)	222	(6.5)		(4.0)	303	(3.7)	424	(5.2)	480	(6.3)	516	(9.
	Qutar	368	(0.7)	58	(0.9)	366	(1.2)	371	(7.0)	-5	(1.7)	227	0.6	255	(1.5)	300	(1.2)	425	(1.5)	506	(2.4)	557	0
	Romania	427	(3.4)	79	(2.1)	429	(3.5)	425	(3.8)	3	B-53	299	(4.4)		(4.1)	372	(4.00	461	(3.6)	530	(5.4)	560	(6
	Russian federation	468	(3,39	85	(2.1)	469	0.70	467	35	2	(2.8)	329	6.11		F1.53	411	44.23	524	0.80	576	(5.3)	609	17.
	Serbia	442	(2.9)	91	(1.9)	448	(3.8)	437	(3.2)	12	(4.0)	295	(48)		(4.3)	380	(3.7)	904	(3.2)	560	(4.3)	592	(5)
	Shanghai-China	600	(2.5)	103	(2.1)	910	(3.7)	601	611	14	(4.0)	421		462	(5.0)		64.00	674	(3.3)		14.29	757	(4
	Singapore	562	(1.4)	104	(1.7)	233	(1.9)	509	0.0	-	(2.5)	363	0.0		(4.1)	490	(2.9)	638	(2.0)	693	(2.5)	725	G.
	Chinese Taipei	543	(3.40	105	(2.3)	546	(1-9)	541	(4.40)	3	(2-5) (6-6)	366	60		(3.5)		(3.6)	618	(4.6)		(5.4)	709	06
				105						3													
	Thailand	419	(3-2)		(2-5)	421	(3.9)	417	(3-8)	- 4	(4.2)	295	(4.5)		(4.2)	345	(3.5)	469	(3.7)	522	(5.4)	554	(6-
	Trinidad and Tobago	414	(1.3)	99	(1.2)		(2.3)	418	(1.5)	-6	(2.9)	252	0.9		(2.7)		(2.5)	484	(2.5)		(1.0)	580	02
	Tunisia	371	(3.0)	78	(23)	378	(3.2)	366	(3.2)	12	{2.3]	247	(4.8)		(4.3)		(3.7)	423	(3.4)	471	(4.9)	499	(6)
	Urugazy		(2.6)		(1.7)	433	13.09	421	(2.9)	12	(2.7)	278	(3.5)	310	\$5.29	364	(3.4)	490	(3.1)	546	(4.1)	578	(4



[Part 1/1]

Table 1.3.4	Percer	tege of	studer	nts et e	ech pro	ficiency	level :	on the :	cience	scele				
							Proficies	ncy levels						
	diction	Level 1 334.94 points)	less than	el 1 14.94 to 1 409.54 points)	(from 4 fcm that	rel 2 09.34 to n 484.14 points)	drom 6	el 3 84.14 to n 558.73 points)	less the	el 4 58.73 to n 633.33 points)	from 6 less that score	33,331e	tabtive	rel 6 707.93 points)
	%	5.1.	%	S.E.	%	S.L.	5	S.E.	- 5	S.E.	%	S.E.	%	S.E.
Austra Su.	3.4	(0.3)	9.2	(92.5)	20.0	(0.6)	25.4	(0.7)	24.5	(0.7)	11.5	(0.6)	3.1	(0.5)
Austria	6.7	(3.6)	143	(1.0)	23.8	(1.0)	26.6	(1.0)	20.6	(1.0)	2.1	(0.6)	1.0	(0.2)
8 elgium	6.4	(0.6)	11.7	(0.6)	20.7	(0.6)	27.2	(0.8)	24.0	(0.8)	90	(0.6)	1.1	(0.2)
Canada	2.0	(0.2)	7.5	(9.4)	20.9	(0.5)	31.2	(0.6)	26.2	(0.6)	10.5	(0.4)	1.6	(0.2)
Chile	8.4	(0.4)	23.9	(1.1)	35.2	(0.9)	23.6	(1.1)	7.9	(0.7)	1.1	(0.2)	0.0	(0.0)
Czech Republic	4.7	(0.4)	12.6	(0.9)	25.6	(1.0)	28.8	(1.2)	19.9	(0.50)	7.2	(0.6)	1.2	(0.2)
Denmark	4,1	(0.4)	12.5	(0.7)	26.0	(0.8)	30.6	(1.1)	20.1	(0.8)	5.9	(0.5)	0,9	- (0.2)
Extenia finland	1.1	(0.3)	70	(0.7)	21.3	(1.1)	34.3	(1.1)	25.7	(1.1)	15.4	(0.6)	1.4	40.33
France	7.1	(0.4)	12.2	(0.8)	22.1	(1.2)	28.8	(0.5)	21.7	(1.0)	7.3	(0.7)	0.6	40.2
Germany	43	(0.5)	10.7	(0.8)	20.1	(0.9)	27-3	(1.7)	25.0	(1.2)	109	(0.7)	1.9	40.3
Greece	7.2	(1.1)	18.1	(3.0)	29.8	(1.0)	27.9	(1.2)	14.0	(1.0)	2.6	(0.3)	0.3	10.1
Hungary	3.0	(12.9)	10.4	(0.9)	25.5	0.0	33.2	(1.3)	21.6	(1.2)	5.1	60.50	0.3	(0.1)
Iceland	5.5	(0.5)	12.5	(7.6)	258	(0.8)	304	82.50	18.6	40.60	6.1	(0.4)	0.8	40.00
Ireland	4.4	(0.7)	10.7	0.0	23.3	(1.2)	29.9	0.0	22.9	40.59	7.5	(0.7)	3.2	40.21
Israel	13-9	(1-1)	19.2	(0.7)	260	(1.49	24.1	(0.6)	12-8	(0.7)	3.5	(0.4)	0.5	(0.1)
Italy	61	(0.4)	14.5	(0.5)	25.5	(0.6)	29,5	(0.5)	18.6	(0.5)	5.3	(0.3)	0.5	(0.1)
Japan	3.2	(0.5)	7.5	(0.7)	16.3	(0.9)	26.6	(0.0)	29.5	{1 CD	14.4	(0.7)	2.6	(0.4)
Korea	1.1	(0.3)	5.2	(0.7)	18.5	(1.2)	33.1	(1.1)	30,4	(1.1)	10.5	(0.59	1.1	(0.3)
Luxembourg	8.4	(D.5)	15.3	(0.9)	243	(0.7)	27.1	(0.9)	18-2	(0.9)	60	(0.5)	0.7	(0.1)
Mexico	145	(0.6)	32.8	(0.6)	33.6	(0.6)	15.8	(0.6)	3.1	(0.3)	0.2	(CLCI)	0.0	(CLC)
Netherlands	2.6	(0.5)	10.6	(1-5)	21.8	(1.5)	26.9	(1-1)	253	(1.2)	11.2	(1.1)	1.5	(0.3)
New Zealand	40	(0.5)	9.4	(0.5)	181	(1.0)	25.8	(0.9)	25 1	(0.7)	14.0	(0,7)	3.6	(0.4)
Norway	3.8	(0.5)	11.9	(0.59	26.6	(3.9)	31.1	(9.7)	20.1	(0.6)	5.9	(0.6)	0.5	(0.2)
Poland	2.3	(0.3)	10.9	(0.7)	26.1	(0.49)	32.1	(0.8)	21.2	(1.0)	6.8	(0.5)	0.8	(0.2)
Portugal	5.0	(0.4)	13.5	(0.9)	28.9	(1.1)	32.3	(1.1)	18.1	[1.0]	3.9	(0.5)	0.3	(0.1)
Slovek Republic	3.1	(0.6)	14.2	(0.9)	27,6	(1.0)	29.2	(1.1)	23.0	(0.5)	87	(0.6)	0.7	(0.2)
Spain	46	(0.4)	13.6		27.9	67	32.3		17.6	(0.7)	37	(0.6)	0.2	
Sweden	5.B	(0.4)	13.4	(0.7)	25-6	(0.7) (0.8)	28.4	(2.6)	18.7	(0.6) (0.6)	7.1	10.6)	1.0	(0.1)
Switzerland	3.5	(0.3)	10.6	(0.6)	21.3	(1-1)	29.8	(1.0)	24.1	(1.0)	9.2	(0.7)	1.5	10.2
Turkey	6.3	(0.3)	23.0	(1.1)	34.5	(1-2)	25-2	(1.2)	2.1	(1.1)	1.1	(0.3)	0.0	10.0
United Kingdom	3.8	(0.3)	11.2	(0.7)	22.7	67	28.8	(1.0)	77.7	ED 80	9.5	40.60	19	40 20
United States	4.2	(0.5)	13.9	(0.9)	25 B	80.70	27.5	(3.8)	20.1	(0.50	7.9	(0.80	1.3	10.33
OECD total	34	(0)25	146	(0.3)	248	(0.3)	27.4	80.50	119.6	10,50	7.8	10.21	1.4	10.1
OFCO average	5.0	(0.3)	13:0:	10.11	24.47	19.20	28,6	80.2	28.61	10.27	2.8	10.10	Tito	(0.00
Albania	263	(1.6)	31.0	(1.3)	27.7	(1.2)	12.9	(1.3)	2.0	[GL49]	0.1	(0.1)	0.0	
Argentina	25.2	(1.2)	27.2	(1/4)	26.7	(1.2)	15.6	(1.1)	4.8	[0.7]	0.6	(0.2)	0.0	(0.0)
Azerbaijan	31.5	(1.7)	38.5	(1.1)	22.4	(1.1)	6.7	(0.8)	0.8	(0.2)	0.0	(0.0)	0.0	
8razil	19.7	(0.9)	34.5	(1-0)	28.8	(0.9)	12.6	(9.6)	3.9	[0.4]	0.6	(0.1)	0.0	(0.0)
Bulgaria	165	(1.6)	22.3	(1.5)	26.6	(1.3)	21.0	(1.4)	10.9	(1.0)	2.4	(0.5)	0.2	(0.1)
Colombia	20.4	(1.4)	33.7	(1.2)	30.2	(14)	13.1	(1.0)	2.5	(0.3)	01	10 (1)	0.0	10.00
Creatia Dubai (UAE)	11.0	(0.5)	14.9	(1-0)	30.0 26.0	(1.1)	31.1	(1.0)	16.7	(3.0)	3.5	10.6)	0.2	10.1
Hong Kong-China	16	(0.3)	52	(0.4)	15.1	(0.0)	29.4	(0.7)	32.7	(1.0)	142	(0.3)	2.0	40.5
Indonesia	24.6	(0.8)	41.0	(1.5)	27.0	(1.6)	69	(1.0)	0.5	(0.2)	90	(D, (I)	0.0	40.5
Jordan	18.0	(1.2)	27.6	(3.1)	32.2	(1.2)	17.6	0.0	4.3	40.50	95	(0.2)	0.0	40.00
Kazakhstan	22.4	(1.3)	33-0	(3.1)	27.9	0.0	12.8	(0.0)	3.6	(0.6)	93	(0.2)	0.0	40.00
Kyrgyzstan	52.9	(1.3)	29.0	(0.9)	13.3	62.89	40	(0.5)	0.7	(0.6)	00	(0.2)	0.0	400
Latvia	2.3	(0.6)	12.5	(1.0)	29.1	(1.1)	35.5	(1.2)	17.6	(1.1)	10	(0.5)	0.1	10.1
Liechtenstein	14	(0.7)	2.2	(1.9)	23.8	(3.1)	29.8	(3.7)	25.4	(2.7)	9.0	(1.2)	0.7	(0.7
Lithuania	3.5	(0.6)	13.5	(0.8)	28.9	(1.0)	32.4	(1.29	17.0	(0.8)	4.3	(0.4)	0.4	(0.1
Macao-China	1.5	(0-2)	8-1	(0.4)	25.2	(0.6)	37-8	(9.7)	22.7	(1-0)	4.5	(0.5)	0.2	(0.1
Montenegro	22.2	(1-0)	31.4	(3.6)	294	(1.0)	13-6	(D-6)	3.1	(0.4)	0.2	(0.1)	0.0	-
Panama.	32.8	(2.7)	32.4	(2.0)	23.2	(1.9)	9.3	(1.2)	2.2	(0.5)	0.2	(0.1)	0,0	
Peru	35.3	(1.5)	33-0	(1-3)	21.7	(1.2)	8.0	(9.6)	1.8	(0.4)	0.2	(0.1)	0.0	(0.0
Qutar	36.4	(0.4)	28.8	(0.5)	18,8	(0.6)	9.8	(0.3)	4.8	(0.2)	13	(0.1)	0.1	(0.0)
Romania	11.9	(1.1)	29.5	(1.6)	34.1	(1.7)	19.7	(1.2)	4.4	(0.6)	0.4	(0.1)	0.0	(0.0
Russian Federation	5.5	(0.7)	16-5	(1.7)	30.7	(1.1)	29.0	(1.2)	13.9	(0.5)	3.9	(0.5)	0.4	(0.2
Serbia	10-1	(0.4)	24.3	(1.0)	33.9	(1.2)	23.6	(0.7)	71	(0.6)	10	(0.2)	0.0	10.6
Shanghai-China	0.4	(0.1)	2.8	(3.4)	10.5	(0.7)	260	(1.0)	36.1	(1.1)	204	(1.0)	3.9	(0.5
	2.8	(0.2)	8.7	(0.5)	17.5	(0.4)	25.4	(0.8)	25.7	(0.7)	15.3	(0.7)	0.8	10.5
Singapore														
Singapore Chinese Taipei	2.2	(0.3)	8.9	(0.6)	21.1	(0.5)	33.3	(1.1)						
Singapore Chinese Taipei Thailand	12.2	(1-1)	30-6	(1-0)	34.7	(1-3)	17-5	(0.5)	4.4	(0.5)	0.6	(0.3)	0.0	40-05
Singapore Chinese Taipei														(0.0)

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							Bi	rys – ProG	ciency lev	ek					
		(below	Level 1 (334.94 points)	(from 3 less than	el 1 14.94 to n 409.54 points)	(from 4 less tha	rel 2 09.34 to n 484.14 points)	from 6 less that score	84.14 to n 558.73	(from 5 less the	el 4 58.73 to n 633.33 points	(from 6 less the	el 5 33.33 to a 707.93 points)	Cabove	el 6 707.93 points)
		%	S.L.	% See	S.L.	5core	S.L.	5	S.E.	5.00	S.E.	5.	S.E.	5	S.E.
^	Austra Su.	4.2	(0.4)	2.2	(02.4)	12.4	(0.8)	26.6	(D.15)	24.1	(0.8)	12.1	(0.7)	1.7	(0.6)
CD3C	Austria	6.6	(1.0)	15.0	(1.2)	22.3	(1.2)	24.8	(1.50	21.3	D-40	8.6	(1.1)	1.3	(0.5)
a	Belgium	6.6	(0.9)	113	(0.6)	20.1	(0.5)	25.8	(1.0)	24.6	(1.2)	10.3	(0.9)	1.3	ED 50
	Canada	2.2	(0.3)		(0.5)	20.2	(0.7)	29.8	(1.0)	26.6	(1.1)	11.7	10.70	1,8	(0.3)
	Chile	7.9	(1.0)	23.2	(1.3)	33.8	(1.4)	25.0	(1.5)	8.8	(0.1)	1.3	(0.3)	0.0	(0.1)
	Czech Republic	5.0	(0.7)	12.9	(1.2)	25.8	(1.3)	29.1	(1.6)	19.1	(1.1)	6.8	(0.40)	1.3	(0.3)
	Denmark	3.7	(0.5)	115	(D 4)	25.4	(1.2)	30.2	(1.3)	20.7	(1.1)	7.2	(0.8)	1.3	(0.4)
	Extenis	1.4	(0.4)	7.2	(1.0)	21.8	(1.7)	33.0	(1.6)	26.0	(1.4)	93	(0.9)	1.4	(0.5)
	finland	1.3	(0.3)	6.2	(0.7)	17.6	(1.1)	28.6	(1.6)	25.6	(1.6)	14.4	(1.0)	3.2	(0.4)
	France	8.0	(1.1)	12.5	(1.1)	20.7	(1,3)	26.7	(1.7)	21.9	(1.3)	9.0	(1.0)	1.2	(0.3)
	Germany	4.2	(01.4)	10.8	(1.0)	19.9	(1.1)	26-0	(1.6)	24.6	(1.6)	12.1	(1,0)	2.5	(0.5)
	Greece	8.3	(1.40	19.9	(1.5)	29.0	(1.6)	26.1	(1.5)	13.5	(1.2)	3.0	(0.4)	0.2	(0.2)
	Hungary	43	(1.0)	110	(1,1)	24.4	(7.5)	32.3	(1.9)	22.0	(3.6)	5,6	(0.7)	0.4	(0.2)
	Iceland	6.5	(0.6)	12.8	(0.9)	23.9	(1.2)	29.0	(1.2)	12.6	(1.2)	7.0	(D.E)	1.1	(0.3)
	treland	5.5	(1.0)	10.5	(1.0)	22.9	(1.4)	29.2	(1.2)	22.8	(12)	7.6	(0.5)	1.4	(0.3)
	timel	15.8	(1.5)	18.9	[1-2]	26.6	(1.7)	22.8	(1-1)	13.3	(1.0)	4.1	(0.5)	0.7	(0.3)
	Italy	6.9	(0.6)	15,4	(0.7)	24.6	(0.7)	27,4	(0.8)	18.7	(0.8)	6,3	(0.4)	0.6	(0.1)
	Japan	41	(0.8)	90	(0.9)	16.8	(1.2)	24.7	(1.2)	28.2	(1.6)	14.5	(1.2)	2.6	(0.6)
	Korea	1.5	(0.5)	6.0	(1.0)	19.0	£1 #9	31.4	(1 6)	29.2	(1.5)	11.3	(1.2)	1.5	(0.5)
	Luxembourg	9.0	(0.7)	15.0	(1.0)	22:3	(0.9)	29.6	(1:2)	19.3	(1.0)	7.1	(0.7)	0.9	(0.2)
	Mexico	143	(0.7)	31.7	(0.9)	32.9	(0.8)	17.2	(0.59	3.7	(0.4)	0.3	(0.1)	0.0	(0.0)
	Netherlands	2.7	(0.6)	9.6	(1.4)	22.2	(1.5)	27.0	(1-6)	25.3	(1.5)	11,6	(1.2)	1.6	(0.4)
	New Zealand	5.3	(0.8)	103	(0.7)	18.0	(1.2)	23.4	(1.1)	241	(1.4)	144	(1.0)	4.4	(0.5)
	Norway	44	(0.6)	12.5	(1.0)	26-2	(1.3)	30.3	(1-2)	19.7	(1.1)	6.3	(0.9)	0.5	(0.2)
	Poland	3.2	(0.5)	12.3	(0.1)	25.8	(1.2)	29.7	(1.2)	20.5	(1.0)	7.5	(0.8)	1.0	(0.3)
	Portugal	3.7	(0.5)	14.7	(1.3)	27.9	(1.3)	31.1	(1.2)	17.8	[1.3]	4.5	(0.6)	0.3	(0.2)
	Slovek Republic	5.2	(0.7)	15.2	(1.2)	27,6	(1.5)	27.5	_(1.4)	16.9	(1.1)	6.7	(0.7)	0.9	(0.3)
	Slovenia	4.0	(0.3)	13-8	(0.7)	24.1	(0.8)	26.9	(1.2)	21.8	(0.9)	8.2	(0.7)	1.3	(0.5)
	Spain	4.8	(0.5)	13.5	(8.0)	26.2	(0.5)	31.4	(0.2)	19.1	(0.8)	4.7	(0.4)	0.3	(0.1)
	Sweden Switzerland	6.8	(0-7)	13.5	(1-0)	25-2	(1.4)	27.5	(1.1)	18.2	(1-1)	7.4	(0.6)	1.3	(0.4)
	Switzerland	32	(0.4)	10.3	(0.7)	21.4	(1.1)	28.7	(1.2)	24.6	(1.3)	10.0	(0.9)	2.1	(0.3) (0.0)
	United Kinedom	4.0	(D.9)	106	(1.3)	21.5	(1.2)	27.6	(1.5)	22.9	(1.2)	10.7	(0.5)	2.4	(O.D) (O.4)
	United Kingdom United States	3.8	(0.6)	13.2	(1.0)	21.8	(1.1)	27.6	(1.2)	22.0	(1.1)	10.7	(0.5)	1.5	(0.4)
	OECD total	3.0	(0.25	147	10 G	24.0	(0.4)	26.2	(0.4)	27.0	(0.43)	61	(0.9)	1,4	(0.17)
	OFCD total	5.5	(6.2)	19:3	(0.4)	23.8	8.28	27.7	(0.4) (0.2)	20.5	(0.4)	8.0	10.50	7.4	(0.17
	LACO Menge	100	100.51	190	100,42	146.07	1850	267	8120	1 300.5	300,201	0.0	10011	100	0.11
5	Albania	32.0	(2.1)	32.0	(1.5)	24.0	(1.4)	10.3	(1.49	1,6	(0.4)	0.1	(0.1)	0.0	c
Partners	Aggettina	27.3	(1.4)	26.4	(1.7)	25.3	(1.4)	15.0	(1.2)	5.3	(0.9)	0.7	(0.2)	0.0	(0.0)
ã	Azerbaijan	35.7	(1.9)	38.4	(1.5)	20.7	(1.2)	6.3	(0.8)	0.8	(0.5)	0.0	(0.0)	0.0	c
	Brazil	19.6	(1-0)	340	(1-1)	28.7	(1.0)	12-7	(1-0)	4.3	(0.5)	0.7	(0.2)	0.0	(0.0)
	Bulgaria	20.4	(2.1)	22.9	(2.1)	24.7	(8.1)	19.0	(1.5)	10.5	(1.2)	2.4	(0.6)	0.2	(0.2)
	Colombia	16.7	(2.0)	31.1	(1.8)	33.1	(1.8)	15.7	(1.5)	3.2	[0.6]	0.2	(0.1)	0.0	(0.0)
	Croatia	4.4	(0.7)	16-1	(1.2)	30.3	(1-3)	29.2	(1.3)	16.4	(1.3)	3.4	(0.6)	0.2	(0.2)
	Duhai (UAE)	15.2	(0.7)	21.8	(0.9)	23.7	(1.2)	20.1	(1.0)	13.5	(0.5)	4.5	(0.5)	0.8	(0.2)
	Hong Kong-China	1.6	(D/4)	5.6	(0.9)	15.0	(10)	27.8	(1.2)	32.5	(1.4)	15 1	(1.2)	2.4	(0.4)
	Indonesia	26.9	(23)	41.6	(1.7)	24-8	(1.7)	6.2	(1.1)	0.6	(0.3)	0.0	(0.0)	0.0	c
	Jordan	24.2	(2.0)	297	(1.6)	28.8	(8.1)	13.7	(1.4)	3.3	(0.7)	03	(0.2)	0.0	(0.0)
	Kazakhstan	24.8	(1/4)	33-1	(1.5)	25:9	(1.3)	12-1	(1.0)	3.8	(0.7)	0.4	(0.2)	0.0	(0.0)
	Kyrgyzstan	57.9	(1.6)	26-5	(1-1)	11.2	(0.59	3.8	(0.8)	0.6	(0.2)	0.0	(0.1)	0.0	C
	Latvia	2.8	(0.8)	14.0	(1.4)	28.9	(14)	34.0	(1.6)	16-6	(1.4)	3.5	(0.7)	0.2	(0.2)
	Liechtenstein	1.5	(1.3)	7.7	(2.8)	23.3	(3.8)	28.6	(3.5)	28.0	(3.0)	9.8	(2.5)	1.0	(0.9)
	Lithumia	4.1	(0.9)	15.9	(1.1)	30.2	(1.6)	31.0	(1.6)	14.8	(0.9)	3.9	(0.6)	0.2	(0.1)
	Macao-China	1.8	(0.3)	8.9	(0.6)	25.2	(1.0)	362	(1.0)	22.8	(14)	4.8	(0.8)	0.3	(0.1)
	Monte negro	24.7	(1-8)	32.1	(1-8)	27.4	(1.3)	12-4	(1.3)	3.3	(0.5)	0.3	(0.2)	0.0	c
	Panama.	32.0	(3.3)	33.8	(3.0)	24.4	(2.4)	7.9	(1.3)	1.7	(0.5)	0.2	(0.1)	0.0	c
	Penu	34.9	(1-6)	33.4	(1-3)	21.3	(1.3)	7.9	(0.8)	2.2	(0.5)	03	(0.2)	0.0	(0.1)
	Qular	43.2	(0.9)	26.9	(0.7)	15.0	(0.9)	8.4	(0.5)	4.8	(0.4)	1.5	(0.3)	0.2	(0.1)
	Romania	13.8	(1.5)	30.9	(1.8)	32.5	(2.0)	17.9	(1-4)	4.5	(0.9)	0.4	(0.5)	0.0	c
	Russian Federation	6.2	(0.9)	16-6	(1.3)	30.5	(1.2)	28-3	(1.2)	13.9	(L1)	4.0	(0-6)	0.5	(0.2)
	Serbia	10.8	(1.0)	24.8	(1.4)	32.7	(1.6)	22.4	(1.2)	8.0	(0.7)	1.2	(0.3)	0.0	(0.1)
	Shanghai-China	0.5	(0.2)	3.3	(0.5)	11,4	(1.0)	25.1	(1.5)	34,1	(1.5)	20.8	(1.2)	4.8	(0.7)
	Singapore	3.6	(0.4)	8.9	(0.8)	16.9	(1.0)	25.2	(1.1)	24.7	(0.5)	15.5	(0.9)	5.3	(0.7)
	Chinese Taipei	2.9	(0.5)	94	(0.2)	20.4	(1.3)	31.1	(1.5)	26-7	(14)	3.6	(0.5)	0.8	(0.3)
	Thailand	148	(1-7)	32-2	(1-3)	32-0	(1-7)	16-4	(1-5)	4-0	(0.6)	0.5	(0-2)	0.0	(0.0)
	Trinidad and Tobago	29 1	(1.3)	24.2	(1.2)	23.5	(1.5)	14.6	(0.5)	6.7	(0.7)	1.7	(0.4)	01	(0.1)
	Tunisia.	22.5	(1.3)	31.1	(1.4)	29.7	(1.3)	14.0	(1.2)	2.5	(0.5)	0.2	(0.2)	0.0	(0.0)
	Unaguay	183	(1-2)	24.8	(1.2)	28-0	(1-2)	19.7	(1-2)	7.5	(0.7)	1.7	(0.3)	01	(0.1)



[Part 2/2]

			tage of	Jugari	ics at e	ecii pio					scale, b	y gend	er		
							G	rls – Profi	ciency les	els					
		(below score	Level 1 334.94 points)	from X less than score	el 1 14.94 to 1409.54 points)	from 9 less than score	19.54 to 1 484.14 points)	from 6 less that score	94.14 to 1558.73 points)	from 5 less than score	58.73 to 633.33	less that score	33.33 to n.707.53		707.93 points)
		%	S.E.	~	S.E.	- 5	S.E.	- 5	S.E.	%	S.E.	%	S.E.	%	S.E.
	Australia	2.7	(2.3)	8.4	(0.5)	30.6	(0.7)	30.0	(0.8)	24.9	(D.8)	10.5	(0.7)	2.5	(0.5)
	Austria	6.8	(1.0)	13.5	(1.2)	25.3	(1.6)	28.3	(1.3)	19.9	(1.3)	5.5	(0.7)	0.6	(0.2)
	Belgium	61	(0.8)	12.1	(8.0)	21.3	(0.5)	28.7	(1.1)	23.4	(1.1)	7.7	(0.6)	8.0	(0.2)
	Canada	1.9	(0.2)	73	(0.4)	21.6	(0.6)	32.7	(0.8)	25.8	(0.7)	9.3	(0.5)	1.4	10.2
	Chile Czech Republic	4.2	(0.9)	12.3	(1.3)	36.5	0.0	22.2	(1.2)	6.9	(0.9)	7.5	(0.3)	1.1	(0.0)
	Denmark	45	(0.7)	13.4	(0.5)	26.6	(1.1)	31.1	(1.4)	19.5	(1,1)	4.6	(0.6)	0.5	00.20
	Denmark Externa	12	(0.4)	6.9	(0.9)	20.8	(1.7)	35.7	(1.4)	25.4	(1.4)	8.5	02.50 02.50	1.5	02.40
	finland	0.9	[0.2]	3.6	10.49	12.9	(1.0)	29.0	(1,39	33.5	(1.1)	16.3	40.91	3.4	90.40
	France	6.2	(0.8)	11.8	(1.1)	23.3	(1.7)	30.9	(1.7)	21.5	(1.3)	5.7	(0.7)	0.5	00.21
	Germany	3.9	(0.6)	10.6	(7.0)	20.4	(1.2)	28.8	(1,5)	25.4	(1,4)	9.6	(7.0)	1.4	40,31
	Greece	6.0	(1.0)	16-4	(7.0)	30.6	(1.2)	29.5	(1.4)	14.4	(1,1)	2.6	(0.4)	0.3	00,11
	Hungary	3.3	(1.1)	96	(0.9)	26.7	(1.3)	34,1	(1,5)	21.6	(1.5)	45	(0.40)	0.2	(0.1)
	terland	44	(0.6)	12.2	(0.5)	27.7	(1.3)	31.9	(1.5)	180	(1.3)	5.3	(0.6)	0.5	(02.2)
	treland	3.3	(0.6)	11.0	(1.6)	23.7	(1.5)	30.7	(1.3)	23.0	(1 3)	7.4	40.5)	0.9	(0.3)
	teracl	12:0	(1.0)	19.5	(1-1)	27.6	(1.2)	25.4	(1.0)	12-4	(0.5)	2.9	(0.4)	0.2	(0.1)
	Italy	5,3	_(0.4)	13.6	(0.6)	26/3	(0.5)	31.6	(0.7)	18,6	(0.6)	4.3	(0.3)_	0.3	(0,1)
	Japan	2.2	(0.2)	5.9	(0.8)	15.7	(7.1)	28.6	(1.3)	30.9	(1.4)	14.2	(8.0)	2.5	(0.5)
	Korea	0.7	(D.3)	4.3	(0.5)	179	(1.5)	35 1	(1.6)	31.7	(17)	9.7	(12)	0.6	(0.2)
	Luxembourg	7.9	[0.6]	15.5	(1.1)	26.4	(1,2)	27.9	(1.1)	17.0	(1.1)	4.9	(0.6)	0.5	(0.1)
	Mexico	14.8	(0.7)	340	(0.8)	34.2	(0.8)	144	(0.6)	2.5	(0.3)	0.1	(0.0)	0.0	(0.0)
	Netherlands	2.4	(0.7)	11-6	(1.5)	21-5	(1.5)	26-8	(1.4)	25.3	(1-8)	10.9	(1.2)	1.4	(0.3)
	New Zealand	26	(0.5)	84	(0.6)	161	(1.3)	284	(15)	26.2	(1.2)	13.5	(1.0)	2.6	(0.5)
	Norway	3.2	10-5)	11.3	(1-1)	27.1	(1-1)	32.0	(1.0)	20.4	(1.40)	5.5	(0.8)	0.5	10.23
	Poland	1,4	(0.3)	9,4	(0.5)	26.4	(1.49	34.4	(1.1)	21.9	(1.2)	6,1	(0.5)	0.5	(0.2)
	Portugal	2.4	(0.4)	12.3	(1.3)	27.6	(1.6)	33.5	(1.5)	18.3	(1.1)	3.3	(0.7)	0.2	(0.2)
	Slovek Republic Slovenia	21	(0.8)	9.5	(1.2)	27.6	(1.3)	30.5	(1.1)	24.2	(1.2)	9.3	(0.7)	0.5	(0.2)
	Spain	44	(0.3)	118	(0.5)	29.7	(0.5)	32.5	(1.5) (0.8)	15.9	(0.7)	2.8	(1.1)	0.1	40.11
	Sweden	47	(0.5)	13.2	(0.59)	26.1	(3.7)	29.4	(1.49	19.2	(3.6)	6.0	(0.3)	0.7	40.71
	Switzerland	1.7	(0.5)	10.9	(0.75	21.1	0.0	30.9	(1.3)	21.5	(1.3)	8.4	(0.7)	1.0	90-21
	Turkey	5.7	(1.0)	20.8	(1.6)	35.5	(1.4)	27.2	(1-7)	25.5	(1.2)	1.1	(0.4)	0.1	02-11
	United Kingdom	37	(0.4)	11.8	ID 99	23.5	(0.5)	29.9	(1.2)	21.5	(1.2)	8.4	40.81	1.4	60.31
	United States	4.6	[0.6]	14.7	(1.2)	26.7	(1.4)	28.0	(1.1)	18.2	(1.2)	6.7	03.80	1.0	(0.4)
ı	OECD total	52	10.21	14.6	10 45	25.7	10.40	28-0	10.43	(19,4)	30.40	6.5	1020	0.9	60.4
	OLCD average	4,5	10,11	12.6	19.71	24.9	10.21	29.7	0.35	28.67	10.21	6.8	10.11	0.9	(0.00
	Albania	20.3	(1.5)	30.0	(1.7)	37.5	(1.0)	15.7	(1.8)	2.5	(0.5)	0.1	(0.1)	0.0	
	Argentina	23.4	(1.9)	27.9	(1.6)	27.9	(1.6)	15.7	(1.5)	4.4	(0.7)	0.6	(0.3)	0.1	40,13
	Azerbaijan	293	(1.8)	38.6	(1.4)	24.3	(1.4)	7.1	(1.0)	0.8	(0.3)	0.0	(0.0)	0.0	
	8mzil	19.8	(1-0)	34.9	(1.2)	28.9	(1-3)	12.5	(0.5)	3.4	(0.4)	0.4	(0.1)	0.0	(0.0)
	Bulgaria	12.4	(1.2)	216	(1.5)	28.7	(1.4)	23.2	(1.5)	11.4	(1.3)	2.5	(0.5)	0.2	(0.1)
	Colombia	23.7	[1.9]	36.0	(14)	27.6	(1.6)	10.7	(1.0)	1.9	(0.4)	0.7	(0.1)	0.0	
	Croatia			13.6		29.7									
		2.7	(0-6)		(1.3)		(1.3)	33.2	(1.5)	17.1	(13)	3.6	(0.7)	0.2	
	Dubai (UAI)	6.7	[0.5]	17.1	(1.49)	28.4	(1.2)	25.9	(1.1)	16.1	(0.6)	5.0	(0.5)	0.8	(0.1)
	Hong Kong-China	6.7 1.2	(0.5)	17.1	(1.0)	28.4	(1.2)	25.9 31.1	(1.1)	16.1	(0.8)	5.0 13.1	(0.5)	08 16	(0.4)
	Hong Kong-China Indonesia	6.7 1.2 22.3	(0.5) (0.3) (1.8)	17.1 4.8 40.5	(1.0) (0.7) (2.0)	28.4 15.2 29.1	(1.2) (1.0) (2.0)	25.9 31.1 7.6	(1.1) (1.5) (1.1)	16.1 32.9 0.5	(0.8) (1.3) (0.3)	5.0 13.1 0.0	(0.5) (1.4) (0.0)	08 16 00	(0.4)
	Hong Kong-China Indonesia Joedan	6.7 1.2 22.3 11.8	(0.5) (0.3) (1.8) (1.3)	17.1 4.8 40.5 25.5	(1.4) (0.7) (2.0) (1.4)	28.4 15.2 29.1 35.6	(1.2) (1.2) (2.0) (1.4)	23.9 31.1 7.6 21.5	(1.1) (1.5) (1.1) (1.7)	16.1 32.9 0.5 4.9	(0.8) (1.3) (0.3) (0.7)	3.0 13.1 0.0 0.6	(0.5) (1.4) (0.0) (0.2)	08 16 00 0,0	(0.4)
	Hong Kong-China Indonesia Joedan Kazakhstan	6.7 1.2 22.3 11.8 20.1	(0.5) (0.3) (1.6) (1.3) (1.5)	17.1 4.8 40.5 25.5 32.9	(1.4) (0.7) (2.0) (1.4) (1.4)	28.4 15.2 29.1 35.6 29.8	(1.2) (1.2) (2.0) (1.4) (1.8)	23.9 31.1 7.6 21.5 13.6	(1.1) (1.5) (1.1) (1.7) (1.1)	16.1 12.9 0.5 4.9 3.4	(0.8) (1.3) (0.3) (0.7) (0.7)	5.0 13.1 0.0 0.6 0.2	(0.5) (1.4) (0.0) (0.2) (0.1)	0.8 1.6 0.0 0.0 0.0	(0.4) (0.4) (0.0) (0.0)
	Hong Kong-China Indonesia Joedan Kazakhstan Kyngyzstan	6.7 1.2 22.3 11.8 20.1 48.2	(0.5) (0.3) (1.6) (1.5) (1.6)	17.1 48 40.5 25.5 32.9 31.6	(1.0) (0.7) (2.0) (1.4) (1.4) (1.3)	28.4 15.2 29.1 35.6 29.8 15.2	(1.2) (1.2) (2.0) (1.4) (1.8) (1.1)	25.9 31.1 7.6 21.5 13.6 4.2	(1.1) (1.5) (1.1) (1.7) (1.1) (2.5)	16.1 32.9 0.5 4.9 3.4 0.5	(0.8) (1.3) (0.3) (0.7) (0.7) (0.7)	5.0 13.1 0.0 0.6 0.2 0.0	(0.5) (1.4) (0.0) (0.2) (0.1) (0.0)	08 16 00 00 00 00	(0.4) (0.4) (0.0) (0.0)
	Hong Kong-China Indonesia Joedan Kazakhstan Kyngyzstan Latvia	6.7 1.2 22.3 11.8 20.1 48.2 1.7	(0.5) (1.8) (1.3) (1.6) (0.5)	17.1 4.8 40.5 25.5 32.9 31.6 10.9	(1.0) (2.0) (1.4) (1.4) (1.3) (1.2)	28.4 15.2 29.1 35.6 29.8 15.2 29.2	(1.2) (1.2) (2.0) (1.4) (1.8) (1.1) (1.7)	25.9 31.1 7.6 21.5 13.6 4.2 37.1	(1.1) (1.3) (1.1) (1.7) (1.1) (2.5) (1.7)	16.1 12.9 0.5 4.9 3.4 0.6 18.6	(0.8) (1.3) (0.3) (0.7) (0.7) (0.3) (1.4)	5.0 13.1 0.0 0.6 0.2 0.0 2.5	(0.5) (1.4) (0.0) (0.2) (0.1) (0.0) (0.6)	08 16 00 00 00 00	(0.4) (0.4) (0.0) (0.0)
	Hong Kong-China Indonesia Joedan Kazakistan Kyzgyzsian Labia Liechtenstein	6.7 1.2 22.3 11.8 20.1 48.2 1.7	(0.5) (0.3) (1.8) (1.3) (1.5) (1.6) (0.5) (1.1)	17.1 48 40.5 25.5 32.9 31.6 10.9 12.4	(1.0) (2.0) (1.4) (1.4) (1.3) (1.2) (2.2)	28.4 15.2 29.1 35.6 29.8 15.2 29.2 24.3	(1.2) (1.0) (2.0) (1.4) (1.8) (1.1) (1.7) (3.7)	25.9 31.1 76 21.5 13.6 4.2 37.1 31.2	(1.1) (1.5) (1.1) (1.7) (1.1) (2.5) (1.7) (3.9)	16.1 12.9 0.5 4.9 3.4 0.6 18.6 22.4	(0.8) (1.3) (0.3) (0.7) (0.7) (0.3) (1.4) (4.5)	5.0 13.1 0.0 0.6 0.2 0.0 2.5 8.0	(0.5) (1.4) (0.0) (0.2) (0.1) (0.0) (0.6) (3.0)	0.8 1.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0	(0.0 (0.0 (0.0 (0.0 (0.0 (0.0
	Hong Kong-China Indonesia Jordan Kazakhetan Kyugyastan Latvia Liechtenstein Lithuaria	6.7 1.2 22.3 11.8 20.1 48.2 1.7 1.3 2.9	(0.5) (0.3) (1.8) (1.3) (1.5) (1.6) (0.5) (1.1) (0.6)	17.1 48 40.5 25.5 32.9 31.6 10.9 12.4 11.1	(1.0) (2.0) (1.4) (1.4) (1.3) (1.2) (2.2) (1.0)	28.4 15.2 29.1 35.6 29.8 15.2 29.2 26.3 27.6	(1.2) (1.0) (2.0) (1.4) (1.8) (1.1) (1.7) (3.7) (1.2)	25.9 31.1 7.6 21.5 13.6 4.2 37.1 31.2 33.9	(1.1) (1.5) (1.1) (1.7) (1.1) (2.5) (1.7) (5.9) (1.3)	16.1 12.9 0.5 4.9 3.4 0.6 18.6	(0.8) (1.3) (0.3) (0.7) (0.7) (0.3) (1.4) (6.9) (1.2)	5.0 13.1 0.0 0.6 0.2 0.0 2.5	(0.5) (1.4) (0.0) (0.2) (0.1) (0.0) (0.6) (3.0) (0.6)	0.8 1.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	(0.1 (0.4 (0.0 (0.0 (0.0 (0.9 (0.9
	Hong Kong-China Indonesia Joedan Kazakhstan Nyugeztan Latvia Liechtenstein Lithuania Macao-China	6.7 1.2 22.3 11.8 20.1 48.2 1.7	(0.5) (0.3) (1.8) (1.3) (1.5) (1.6) (0.5) (1.1) (0.6) (0.2)	17.1 48 40.5 25.5 32.9 31.6 10.9 12.4	(1.0) (2.0) (1.4) (1.4) (1.3) (1.2) (2.2)	28.4 15.2 29.1 35.6 29.8 15.2 29.2 24.3	(1.2) (1.2) (2.0) (1.4) (1.8) (1.1) (1.7) (1.7) (1.2) (0.9)	25.9 31.1 76 21.5 13.6 4.2 37.1 31.2	(1.1) (1.5) (1.1) (1.7) (1.1) (2.5) (1.7) (3.9)	16-1 12-9 0.5 4.9 3-4 0-5 18-6 22-6 19-3	(0.8) (1.3) (0.3) (0.7) (0.7) (0.3) (1.4) (4.5)	5.0 13.1 0.0 0.6 0.2 0.0 2.5 8.0 4.7	(0.5) (1.4) (0.0) (0.2) (0.1) (0.0) (0.6) (3.0)	0.8 1.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0	(0.1 (0.4 (0.0 (0.0 (0.9 (0.9 (0.2 (0.1
	Hong Kong-China Indonesia jordan Kazakhetan Ryagazatan Latvia Lichtenstein Lithuania Monteng gro	6.7 1.2 22.3 11.8 20.1 48.2 1.7 1.3 2.9	(0.5) (0.3) (1.8) (1.3) (1.5) (1.6) (0.5) (1.1) (0.6)	17.1 4.8 40.5 25.5 32.9 31.6 10.9 12.4 11.1 7.3	(1.0) (2.0) (1.4) (1.4) (1.3) (1.2) (2.7) (1.0) (0.4) (1.4)	28.4 15.2 29.1 35.6 29.8 15.2 29.2 24.3 27.6 25.1	(1.2) (1.2) (2.0) (1.4) (1.8) (1.1) (1.7) (3.7) (1.2) (9.9) (1.4)	25.9 31.1 7.6 21.5 13.6 4.2 37.1 31.2 33.9 39.3	(1.1) (1.3) (1.1) (1.7) (1.7) (1.7) (1.5) (1.7) (1.9) (1.3) (1.1) (1.0)	16.1 12.9 0.5 4.9 3.4 0.5 18.6 22.4 19.3 22.5	(0.8) (1.3) (0.3) (0.7) (0.7) (0.3) (1.4) (4.5) (1.2) (1.1)	5.0 13.1 0.0 0.6 0.2 0.0 2.5 8.0 4.7 4.3	(0.5) (1.4) (0.0) (0.2) (0.1) (0.0) (0.6) (3.0) (0.6) (0.6)	0.8 1.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	(0.3 (0.4 (0.0 (0.0 (0.0 (0.9 (0.2 (0.1
	Hong Kong-China Indonesia Joedan Kazakhstan Nyugeztan Latvia Liechtenstein Lithuania Macao-China	67 1.2 22 3 11 8 20 1 48 2 1.7 1.3 2.9 1.2 19.6	[0.5] (0.3) (1.8) (1.3) (1.6) (0.6) (0.6) (0.2) (1.4)	17.1 4.8 40.5 25.5 32.9 31.6 10.9 12.4 11.1 7.3 30.7	(1.0) (0.7) (2.0) (1.4) (1.4) (1.3) (1.2) (2.7) (1.0) (0.4)	28.4 15.2 29.1 35.6 29.8 15.2 29.2 24.3 27.6 25.1 31.6	(1.2) (1.2) (2.0) (1.4) (1.8) (1.1) (1.7) (1.7) (1.2) (0.9)	25.9 31.1 76 21.5 13.6 4.2 37.1 31.2 33.9 39.3 14.9	(1.1) (1.5) (1.1) (1.7) (1.1) (0.5) (1.7) (5.9) (1.3) (1.1)	16.1 12.9 0.5 4.9 3.4 0.5 18.6 22.4 19.3 22.5 3.0	(0.8) (0.3) (0.7) (0.7) (0.3) (1.4) (4.5) (1.2) (1.1) (0.6)	5.0 13.1 0.0 0.6 0.2 0.0 2.5 8.0 4.7 4.3 0.2	(0.5) (1.4) (0.0) (0.2) (0.1) (0.0) (0.6) (3.0) (0.6) (0.4) (0.2)	08 16 00 00 00 00 00 00 00 00 00 00 00 00 00	(0.3 (0.4 (0.0 (0.0 (0.9 (0.2 (0.1
	Hong Kong-China Indonesia jordan Kazakhetan Kyngrzstan Latvia Liechtenstein Lithuania Macao-China Montene gro Panama	67 1.2 22.3 11.8 20.1 48.2 1.7 1.3 2.9 1.2 19.6 33.5	(0.5) (0.3) (1.6) (1.6) (0.6) (0.1) (0.6) (0.2) (1.4) (0.9)	17.1 48 40.5 25.5 32.9 31.6 10.9 12.4 11.1 7.3 30.7 30.9	(1.0) (2.0) (1.4) (1.4) (1.3) (1.2) (2.2) (1.0) (1.4) (1.4) (2.3)	28.4 15.2 29.1 35.6 29.8 15.2 29.2 24.3 27.6 25.1 31.6 22.0	(1.2) (1.2) (2.0) (1.4) (1.8) (1.1) (1.7) (3.7) (1.2) (9.9) (1.4) (2.0)	25.9 31.1 7.6 21.5 13.6 4.2 37.1 31.2 33.9 39.3 14.9 10.7	(1.1) (1.2) (1.1) (1.7) (1.7) (1.7) (1.7) (1.9) (1.3) (1.1) (1.0) (1.0)	16.1 12.9 0.5 4.9 3.4 0.8 18.6 22.4 19.3 22.5 3.0 2.6	(0.8) (1.3) (0.3) (0.7) (0.7) (0.3) (1.4) (4.9) (1.2) (1.1) (0.6) (0.8)	5.0 13.1 0.0 0.6 0.2 0.0 2.5 8.0 4.7 4.3 0.2 0.2	(0.5) (1.4) (0.0) (0.2) (0.1) (0.0) (0.6) (3.0) (0.6) (0.4) (0.2) (0.2)	08 16 00 00 00 00 00 00 00 00 00 00 00 00 00	(0.3 (0.4 (0.0 (0.0 (0.9 (0.9 (0.1
	Hong Kong-China Indonesia Jeedan Kazakhstan Kyggyasian Latvia Liechtenstein Litharnia Montene gro Panama Peru	67 1.2 22 3 11 8 20 1 46 2 1.7 1.3 2.9 1.2 19 6 33.5 35.7	[0.5] (0.3) (1.8) (1.3) (1.5) (1.6) (0.5) (1.1) (0.6) (0.2) (1.4) (0.2) (1.4) (0.3) (1.9)	17.1 4.8 40.5 25.5 32.9 31.6 10.9 12.4 11.1 7.3 30.7 30.9 32.7	(1.0) (2.0) (1.4) (1.4) (1.2) (1.2) (1.0) (2.7) (1.0) (2.4) (2.3) (2.0)	284 152 291 356 298 152 292 243 276 25.1 316 22.0 22.1	(1.2) (1.0) (2.0) (1.4) (1.8) (1.1) (1.7) (2.7) (1.2) (0.9) (1.4) (2.0) (1.5)	25.9 31.1 7.6 21.5 13.6 4.2 37.1 31.2 33.9 39.3 14.9 10.7 8.1	(1.1) (1.2) (1.1) (1.7) (1.1) (0.5) (1.7) (1.5) (1.3) (1.1) (1.0) (1.0) (1.1)	16.1 32.9 0.5 4.9 3.4 0.8 18.6 22.4 19.3 22.5 3.0 2.6 1.3	(24) (1.3) (2.3) (2.7) (2.7) (2.3) (1.4) (4.5) (1.2) (1.1) (2.6) (2.6) (2.6)	50 13.1 00 0.6 0.2 0.0 2.5 8.0 4.7 4.3 0.2 0.2 0.2	(0.5) (1.4) (0.0) (0.2) (0.1) (0.6) (0.6) (0.6) (0.6) (0.6) (0.2) (0.2) (0.2)	08 16 00 00 00 00 00 00 00 00 00 00 00 00 00	(0.3 (0.4 (0.0 (0.0 (0.9 (0.2 (0.1 (0.0 (0.0 (0.0
	Hong Kong-China Indonesia jeedan Kazakhatan Kyagyardan Latvia Liechienstein Lithuaria Macao-China Montene guo Parama Peru	67 1.2 22.3 11.8 20.1 40.2 1.7 1.3 2.9 1.2 19.6 33.5 35.7 29.4	[0.5] [0.3] [1.8] [1.3] [1.5] [1.6] [0.5] (1.1) (0.6) (0.2) (1.4) (0.9) (1.9) (0.7)	17.1 4.8 40.5 25.5 32.9 31.6 10.9 12.4 11.1 7.3 30.7 30.9 32.7 30.8	(1.0) (2.0) (1.4) (1.4) (1.3) (1.2) (2.2) (1.0) (2.4) (2.4) (2.3) (2.0) (2.0) (2.0)	28.4 15.2 29.1 35.6 29.8 15.2 29.2 24.3 27.6 25.1 31.6 22.0 22.1 22.6	(1.2) (1.2) (2.0) (1.4) (1.8) (1.1) (1.7) (2.7) (1.2) (0.5) (1.4) (2.0) (1.5) (0.2)	25.9 31.1 7.6 21.5 13.6 4.2 37.1 31.2 33.9 39.3 14.9 10.7 8.1 11.3	(1.1) (1.2) (1.1) (1.7) (1.1) (0.5) (1.7) (1.5) (1.3) (1.1) (1.0) (1.0) (1.1) (1.5)	16.1 12.9 0.5 4.9 3.4 0.8 15.6 22.4 19.3 22.5 3.0 2.6 1.3 4.8	(0.8) (1.3) (0.3) (0.7) (0.7) (0.3) (1.4) (4.9) (1.2) (1.1) (0.6) (0.8) (0.9) (0.9)	50 13.1 00 0.6 0.2 0.0 2.5 8.0 4.7 4.3 0.2 0.2 0.1	(0.5) (1.4) (0.0) (0.2) (0.1) (0.6) (0.6) (0.6) (0.4) (0.2) (0.2) (0.1) (0.2)	08 16 00 00 00 00 00 00 00 00 00 00 00 00 00	(0.3 (0.4 (0.0 (0.0 (0.9 (0.2 (0.1 (0.0 (0.0 (0.0 (0.0
	Heng Kong-China Indonesia Jeedan Kazakhitan Kygyzistan Latvia Lichienstein Lithuariin Macea-China Monteorgio Panama Peru Qalaz Romania	67 1.2 223 118 201 462 1.7 1.3 2.9 1.2 19.6 30.5 35.7 29.4 10.1	[0.5] [0.3] [1.8] [1.3] [1.5] [1.6] [0.5] (1.1) (0.6] (0.2) (1.4) (0.9) (1.9) (0.7) (1.2)	17.1 4.8 40.5 25.5 32.9 31.6 10.9 12.4 11.1 7.3 30.7 30.9 32.7 30.8 28.1	(1.0) (2.0) (1.4) (1.4) (1.3) (1.2) (2.2) (1.0) (2.4) (2.4) (2.3) (2.0) (2.9) (1.9)	28.4 15.2 29.1 35.6 29.8 15.2 29.2 24.3 27.6 25.1 31.6 22.0 22.1 22.6 35.7	(1.2) (1.8) (2.0) (1.4) (1.8) (1.1) (1.7) (2.7) (1.2) (0.5) (1.4) (2.0) (1.5) (0.7) (2.1)	25.9 31.1 76 21.5 13.6 4.2 37.1 31.2 33.9 39.3 14.9 10.7 8.1 11.3 21.4	(1.1) (1.2) (1.1) (1.7) (1.1) (2.5) (1.7) (2.9) (1.3) (1.1) (1.0) (1.0) (1.1) (2.5) (1.6)	16.1 12.9 0.5 4.9 3.4 0.8 18.6 22.4 19.3 22.5 3.0 2.6 1.3 4.8 4.3	(0.8) (1.3) (0.3) (0.7) (0.7) (0.3) (1.4) (4.9) (1.2) (1.1) (0.6) (0.8) (0.9) (0.9) (0.9) (0.9)	50 13.1 00 0.6 0.2 0.0 2.5 8.0 4.7 4.3 0.2 0.1 1.1	(0.5) (1.4) (0.0) (0.2) (0.1) (0.6) (0.6) (0.6) (0.4) (0.2) (0.2) (0.1) (0.2) (0.2) (0.2)	08 16 00 00 00 00 00 00 00 00 00 00 00 00 00	(0.3 (0.4 (0.0 (0.0 (0.9 (0.2 (0.1 (0.0 (0.0 (0.0 (0.0 (0.0 (0.0 (0.0
	Hong Kong-China Indicessia Joedan Kazakhutan Kazakhutan Kayagratan Larivia Licehtenstein Lithuarnia Macao-China Monteorgro Prass Prass Romania Romania Romania Kassian Federation Scribia	67 1.2 223 118 201 462 1.7 1.3 2.9 1.2 196 33.5 294 10.1 48 94	(0.5) (0.3) (1.8) (1.3) (1.6) (0.6) (0.4) (0.4) (0.9) (1.9) (0.7) (1.2) (0.7) (1.2)	17-1 48 40 5 25 5 32 9 31.6 10 9 12 4 11.1 7.3 30.7 30.9 32.7 30.8 28.1 16.5 23 7 2.2	(1.0) (2.0) (1.4) (1.3) (1.2) (1.0) (2.2) (1.0) (2.4) (2.3) (2.0) (2.9) (1.9) (1.9) (1.9) (1.9) (1.9) (1.9) (1.9)	28.4 15.2 29.1 35.6 29.8 15.2 29.2 24.3 27.6 25.1 31.6 22.0 22.1 22.6 35.7 30.9 35.1 9.6	(1.2) (1.2) (2.0) (1.4) (1.4) (1.7) (1.2) (1.2) (1.2) (2.0) (1.5) (2.0) (1.5) (2.1) (1.4) (2.1) (1.4) (2.9)	25.9 31.1 76 21.5 13.6 4.2 37.1 31.2 53.9 59.3 14.9 10.7 6.1 11.3 21.4 29.8 24.8 26.8	(1-1) (1-2) (1-1) (1-7) (1-7) (1-9) (1-8) (1-1) (1-9) (1-1) (1-9) (1-1)	16.1 32.9 0.5 4.9 3.4 0.8 18.6 22.4 19.3 22.5 3.0 2.6 1.3 4.8 4.3 13.9 6.2 38.0	(3-8) (1-2) (3-3) (0.7) (0.7) (0.3) (1-4) (4-5) (1-2) (1-1) (0.6) (0.6) (0.6) (0.6) (0.6) (0.6) (0.6) (0.6) (0.6) (0.7) (0.7)	5.0 13.1 0.0 0.6 0.2 0.0 2.5 8.0 4.7 4.3 0.2 0.1 1.1 0.3 3.9 0.8 20.0	(0.5) (1.4) (0.0) (0.2) (0.1) (0.6) (0.6) (0.6) (0.6) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2)	08 16 00 00 00 00 00 00 04 05 0.2 00 00 00 00 00 00 00 00 00 00 00 00 00	(0.3) (0.4) (0.0) (0.0) (0.2) (0.2) (0.1) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)
	Hong Xing-China Indonesia Indonesia Kazalutan Nyugratan Labia Labia Lichicansiei Lithuania Maca-China Montone gua Panama Pena Quiaz Ramania Rassiai rederation Scrista Shanghai China Singapore	67 1.2 223 1118 201 482 1.7 1.3 2.9 1.2 19.6 33.5 35.7 29.4 10.1 48 9.4 0.3	(0.5) (0.3) (1.6) (1.6) (0.1) (0.6) (0.2) (1.1) (0.6) (0.2) (1.7) (1.9) (0.7) (1.2) (0.7) (1.2) (0.7) (1.3)	17.1 48 48 55 255 329 31.6 109 124 11.1 7.3 30.7 30.9 32.7 30.8 28.1 16.5 23.7 2.2 8.5	(1.0) (2.0) (1.4) (1.3) (1.2) (2.2) (1.0) (2.4) (2.3) (2.0) (2.3) (2.0) (2.5) (1.5) (1.5) (1.5) (1.5) (1.5) (1.5) (1.5) (1.5) (1.5) (1.5) (1.6)	28.4 15.2 29.1 35.6 29.8 15.2 29.2 24.3 27.6 25.1 31.6 32.0 22.1 22.6 35.7 30.9 35.1 9.6 18.2	(1.2) (1.2) (2.0) (1.4) (1.7) (1.7) (1.7) (1.2) (0.9) (1.4) (2.0) (1.4) (1.4) (1.4) (1.4) (1.4) (1.5)	21.9 31.1 76 21.5 13.6 4.2 37.1 31.2 33.9 39.3 14.9 59.3 11.3 21.4 28.8 24.8 26.8 25.6	(1.1) (1.2) (1.1) (1.7) (1.7) (1.7) (1.5) (1.3) (1.1) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6)	16.1 12.9 0.5 4.9 3.4 0.8 15.6 22.4 19.3 22.5 3.0 2.6 1.3 4.8 4.3 13.9 6.2 38.0 26.7	(3-8) (1-3) (0-3) (0-7) (0-3) (1-4) (4-5) (1-2) (1-1) (0-6) (0-8) (0-6) (1-3) (0-6) (1-1) (1-8) (1-5) (1-1)	5.0 13.1 0.0 0.6 0.2 0.0 2.5 8.0 4.7 4.3 0.2 0.1 1.1 0.3 3.9 0.8 0.0 0.2 0.1 1.1	(0.5) (1.4) (0.0) (0.2) (0.1) (0.6) (0.6) (0.6) (0.6) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2) (0.3)	08 16 00 00 00 00 00 00 04 05 0.2 00 00 00 00 00 00 00 00 00 00 00 00 00	(0.3 (0.0 (0.0 (0.0 (0.9 (0.2 (0.1 (0.0 (0.0 (0.0 (0.0 (0.0 (0.0 (0.0
	Hong Kong-China Indonesia joedan Cazakhutan Syografisan Lativia Letivia Letivia Letivia Letivia Letivia Letivia Letivia Letivia Letivia Montone gro Pranama Pres Quitar Romania Romania Serbia Serbia Serbia Letivia Letivia	67 1.2 223 118 201 462 1.7 1.3 2.9 1.2 196 33.5 35.7 294 10.1 48 9.4 0.3 1.9	[0.5] (0.3) (1.8) (1.5) (1.6) (0.5) (1.1) (0.6) (0.2) (1.4) (0.8) (1.7) (1.2) (0.7) (1.6) (0.7) (1.6) (0.7) (1.6)	17.1 48 40.5 25.5 32.9 31.6 10.9 12.4 11.1 7.3 30.7 30.9 32.7 30.9 32.7 28.1 16.5 23.7 2.3 8.5 8.5 8.5 8.5	[1.0] (0.7) (2.0) (1.4) (1.3) (1.2) (2.7) (1.4) (2.3) (2.4) (2.3) (2.9) (1.9) (1.2) (1.9) (1.2) (1.9) (1	28.4 11.2 29.1 35.6 29.8 15.2 29.2 24.3 27.6 25.1 31.6 22.0 22.1 22.5 35.7 30.9 35.1 9.6 18.2 21.8	(1.2) (1.2) (2.0) (1.4) (1.7) (1.7) (1.7) (1.4) (2.0) (1.4) (2.1) (1.4) (1.4) (1.4) (1.4) (1.4) (1.4) (1.5)	23.9 31.1 76 21.5 13.6 4.2 37.1 31.2 33.9 39.3 14.9 10.7 8.1 11.3 21.4 28.8 24.8 26.8 26.8 25.4	(1-1) (1-2) (1-1) (1-7) (1-7) (1-9) (1-9) (1-1) (1-9) (1-9) (1-9) (1-9) (1-9) (1-9) (1-9) (1-9) (1-9) (1-9) (1-9) (1-9) (1-9)	16.1 12.9 0.5 4.9 3.4 0.8 18.6 22.4 19.3 22.5 3.0 2.6 1.3 4.8 4.3 13.9 6.2 38.0 6.2 38.0 6.2 38.0 6.2 38.0 6.2 38.0 6.2 38.0 6.2 38.0 6.2 38.0 6.2 38.0 58.0 58.0 58.0 58.0 58.0 58.0 58.0 5	(3-8) (1-2) (3-3) (0-7) (0-3) (1-4) (4-9) (1-1) (0-6) (0-8) (0-6) (0-3) (0-6) (1-1) (0-6) (1-1) (0-6) (1-1) (0-6) (1-1)	5:0 13:1 0:0 0:2 0:0 2:5 8:0 4:7 4:3 0:2 0:2 0:1 1:1 0:3 3:9 0:8 20:0 15:2 7:5	(0.5) (1.4) (0.0) (0.2) (0.1) (0.6) (0.6) (0.6) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2) (0.3) (0.3) (0.4) (0.2) (0.3) (0.4) (0.2) (0.3) (0.4) (0.2) (0.4) (0.2) (0.4) (0.2) (0.4) (0.2) (0.4) (0.2) (0.4) (0.2) (0.4) (0.2) (0.4) (0.2) (0.4) (0.2) (0.4) (0.2) (0.4) (0.2) (0.4) (0.2) (0.4) (0.2) (0.4) (0.2) (0.4) (0.2) (0.4)	08 16 00 00 00 00 00 00 00 00 00 00 00 00 00	0.3 00.4 00.0 00.0 00.0 00.0 00.0 00.0 0
	Hong Kong-Chine Indoorsia pieda pied	67 1.2 223 118 201 402 1.7 1.3 2.9 1.2 196 33.5 294 10.1 48 94 0.3 1.9	[0.5] [0.3] [1.6] [1.5] [1.6] [0.5] [0.1] [0.6] [0.2] (1.4] (0.6] (0.2) (1.4] (0.7) (1.2) (0.7) (1.2) (0.7) (1.3) (0.3) (0.3) (0.3) (0.4) (0.5) (0.4) (0.5) (0.5) (0.6) (0.7) (0	17.1 48 40.5 25.5 32.9 31.6 10.9 12.4 11.1 7.3 30.7 30.7 30.8 28.1 16.5 23.7 2.2 8.5 8.3 29.4	[1.0] [0.7) (2.0) (1.4) (1.3) (1.2) (1.0) (2.4) (2.4) (2.3) (2.0) (2.9) (1	28.4 11.2 29.1 35.6 29.8 15.2 20.3 27.6 25.1 31.6 22.0 22.1 22.6 35.7 9.6 15.2 29.6 15.2 20.7 35.1 36.7	(1.2) (1.2) (1.4) (1.4) (1.4) (1.7) (1.2) (1.2) (1.4) (1.5) (1.4) (1.5) (1.4) (1.5)	23.9 31.1 76 21.5 13.6 4.2 37.1 31.2 33.9 39.3 14.9 10.7 6.1 11.3 21.4 25.8 24.8 26.8 25.4 18.3	(1-1) (1-2) (1-1) (1-7) (1-7) (1-9) (1-8) (1-9) (1-9) (1-9) (1-9) (1-9) (1-9) (1-9) (1-9) (1-9) (1-9) (1-9) (1-9) (1-9)	16.1 32.9 0.5 4.9 3.4 0.8 15.6 22.5 3.0 2.5 3.0 2.6 1.3 4.8 4.3 13.9 6.2 38.0 26.7 24.8 4.7	(0.8) (1.5) (0.7) (0.7) (0.7) (0.3) (1.4) (4.9) (1.2) (1.1) (0.6) (0.8) (0.9) (0.6) (0.1) (0.8) (1.5) (1.5) (1.6) (1.6) (1.6) (1.6)	13.1 00 0.6 0.2 0.0 2.5 8.0 4.7 4.3 0.2 0.1 1.1 0.3 3.9 0.8 20.0 15.2 7.5	(0.5) (1.4) (0.0) (0.2) (0.1) (0.6) (0.6) (0.4) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2) (0.1) (0.2) (0.2) (0.2) (0.1) (0.2)	08 16 00 00 00 00 00 00 00 00 00 00 00 00 00	0.3 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0
	Hong Kong-China Indonesia joedan Cazakhutan Syografisan Lativia Letivia Letivia Letivia Letivia Letivia Letivia Letivia Letivia Letivia Montone gro Pranama Pres Quitar Romania Romania Serbia Serbia Serbia Letivia Letivia	67 1.2 223 118 201 462 1.7 1.3 2.9 1.2 196 33.5 35.7 294 10.1 48 9.4 0.3 1.9	[0.5] (0.3) (1.8) (1.5) (1.6) (0.5) (1.1) (0.6) (0.2) (1.4) (0.8) (1.7) (1.2) (0.7) (1.6) (0.7) (1.6) (0.7) (1.6)	17.1 48 40.5 25.5 32.9 31.6 10.9 12.4 11.1 7.3 30.7 30.9 32.7 30.9 32.7 28.1 16.5 23.7 2.3 8.5 8.5 8.5 8.5	[1.0] (0.7) (2.0) (1.4) (1.3) (1.2) (2.7) (1.4) (2.3) (2.4) (2.3) (2.9) (1.9) (1.2) (1.9) (1.2) (1.9) (1	28.4 11.2 29.1 35.6 29.8 15.2 29.2 24.3 27.6 31.6 22.0 22.1 22.6 33.7 30.9 35.1 9.6 18.2 21.8	(1.2) (1.2) (2.0) (1.4) (1.7) (1.7) (1.7) (1.4) (2.0) (1.4) (2.1) (1.4) (1.4) (1.4) (1.4) (1.4) (1.4) (1.5)	23.9 31.1 76 21.5 13.6 4.2 37.1 31.2 33.9 39.3 14.9 10.7 8.1 11.3 21.4 28.8 24.8 26.8 26.8 25.4	(1-1) (1-2) (1-1) (1-7) (1-7) (1-9) (1-9) (1-1) (1-9) (1-9) (1-9) (1-9) (1-9) (1-9) (1-9) (1-9) (1-9) (1-9) (1-9) (1-9) (1-9)	16.1 12.9 0.5 4.9 3.4 0.8 18.6 22.4 19.3 22.5 3.0 2.6 1.3 4.8 4.3 13.9 6.2 38.0 6.2 38.0 6.2 38.0 6.2 38.0 6.2 38.0 6.2 38.0 6.2 38.0 6.2 38.0 6.2 38.0 58.0 58.0 58.0 58.0 58.0 58.0 58.0 5	(3-8) (1-2) (3-3) (0-7) (0-3) (1-4) (4-9) (1-1) (0-6) (0-8) (0-6) (0-3) (0-6) (1-1) (0-6) (1-1) (0-6) (1-1) (0-6) (1-1)	5:0 13:1 0:0 0:2 0:0 2:5 8:0 4:7 4:3 0:2 0:2 0:1 1:1 0:3 3:9 0:8 20:0 15:2 7:5	(0.5) (1.4) (0.0) (0.2) (0.1) (0.6) (0.6) (0.6) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2) (0.3) (0.3) (0.4) (0.2) (0.3) (0.4) (0.2) (0.3) (0.4) (0.2) (0.4) (0.2) (0.4) (0.2) (0.4) (0.2) (0.4) (0.2) (0.4) (0.2) (0.4) (0.2) (0.4) (0.2) (0.4) (0.2) (0.4) (0.2) (0.4) (0.2) (0.4) (0.2) (0.4) (0.2) (0.4) (0.2) (0.4) (0.2) (0.4)	08 16 00 00 00 00 00 00 00 00 00 00 00 00 00	(0.4) (0.4) (0.0) (0.0)

Station 4mm http://de.doi.org/10.1787/888952545295



		All st	udents			Ge	nder d	Meren	ces							Perce	ntiles					
	Mean	score		edurd ation	8		6	iels	(8	- C)	5	th.	10	ish	2	5th	25	th	90	osh	9	5th
	Mean	S.E.	S.D.	S.E.	Mean	S.E.	Mean score	S.E.	Score dil.	S.E.	Score	S.E.	Score	5.5.	Score	S.E.	Score	S.E.	Score	S.E.	Score	
Australia		(2.5)	101	[1.6]	527	(3.1)	528	(2.8)	-1	(3.2)	355	(4.0)	395	(4.0)	461	(2.8)	597	(2.8)	655	(3.5)	658	
Austria	494	(3.2)	102	[2,2]	498	(4.2)	490	(4.4)	8	(5.7)	321	(6.8)	358	(6.2)	424	(4.8)	519	(3.6)	623	(3.3)	653	0
Belgium	507	(2.5)	105	(2.3)	510	(3.6)	503	(3.2)	6	(4.5)	321	(6.2)	354	(4.B)	438	(3.6)	583	(2.8)	634	(3.1)	661	0
Canada	529	(1.6)	90	(0.9)	531	(1.59	526	(1.5)	5	(1.5)	377	(2.8)	412	[2.7]	469	(2.0)	593	(1.7)	642	(1.7)	669	(2
Chile	447	(2.9)	81	(1.5)	452	(3.5)	113	(3.5)	9	(3.8)	315	(4.3)	343	(4.1)	392	(3.5)	502	(3.6)	553	(3.6)	583	(3
Czech Republic	500	(3.0)	97	(1.9)	496	(4.0)	503	(3.2)	-5	(4.2)	338	(6.5)	375	(5.6)	437	(3.9)	568	(3.4)	624	(4-0)	657	(4
Denmark Estenia	199	(2.5)	92	(1.3)	505	(3.0)	194	(2.5)	12	(3.2)	343	(5.0)	379	(3.5)	438	(3.1)	564	(2.5)	615	(3.7)	645	0
Finland	554	(2.3)	89	(8.7)	546	(2.7)	542	(2.5)	-15	(2.6)	400	(3 U) (4 2)	417	(4.2)	472	(J. 80	617	(2.9)	665	(3.0)	594	6
France	498	(2.5)	103	(2.8)	500	(5.6)	592	(1.5)	-15	(2.49	314	(8.1)	358	(7.1)	433	(5.6)	572	(3.8)	624	(4.2)	653	14
Germany	520	(2.8)	101	(1.5)	523	(3.7)	518	(3.39		(4.2)	345	(7.06	383	66 21	452	44.10	594	(3.0)	645	(3.5)	675	
Gerece	470	(4.0)	92	(2.1)	465	(5.11	475	(3.7)	-10	(3.8)	318	(7.6)	353	(6.3)	409	(2:2)	535	(1.8)	586	(3.6)	616	-
Humany	503	0.11	86	12.56	503	0.80	503	(3.5)	0	62.80	3.68	173.00	388	(7 63	646	(4.6)	564	63.25	609	0.6	636	
Iceland	496	0.40	95	(1.2)	496	(2.1)	895	12.05	2	(2.5)	330	14.33	370	(4.3)	432	(2.6)	561	(2.2)	636	(2.6)	667	1
Ircland	SOR	(3.3)	97	42.10		64.33	509	13.60	-3	64.80	341	(8.31	382	64.96	645	(3.7)	576	(3,3)	627	E6 CH	656	
tgarl	455	(3.1)	107	(2.40	453	(4.4)	456	(3.2)	-3	(4.4)	275	08.11	314	(5.5)	382	(4.5)	531	B. 30	590	(4.00	623	
Italy	489	(3.40	67	(1.5)	455	(2.5)	490	(2.68	-22	(2.5)	325	G.H	362	12.60	424	(2.3)		(2.0)	609	(2.60	639	
Japan	519	(3.4)	100	(2.5)	534	(5.5)	545	(3.9)	-12	(6.7)	361	91.71	405	(7.3)	477	(4.8)	610	(3.2)	6.59	(3.5)	686	6
Korea	57/8	/2 45	82	(2.3)	537	15 00	539	64.79	-3	66.35	390	66.53	431	(5.2)	AHS	64.75	005	(2.7)	640	43.75	665	0
Lusembourg	484	(1.2)	104	(1.1)	487	(2.0)	480	(1.4)	7	(2.6)	304	(4.5)	345	(3.2)	415	(1.1)	558	(2.3)	615	(2.1)	646	0
Mexico	410	(7.09	77	(62,59)	419	(2.0)	413	(1.5)		(1.6)	291	(2.8)	318	(2.11	364	(1.7)	410	(2.1)	517	(2.6)	544	i
Netherlands	522	(5.4)	96	(2.1)	524	(5.3)	520	(5.95	1	(3.63	367	(6.80	395	(7.0)	453	57 60	194	CS 11	645	44.80	673	-
New Zealand	582	(2.6)	107	(2.0)	529	66.00	282	(2.56	-6	(4.6)	348	15.64	390	64 39	461	64 1)	608	C3 06	662	(3,3)	697	-
Norway	500	(2.6)	90	(7.60	498	(3.6)	502	12.85	-4	(2.89	346	44.43	382	C3.53	460	£3.60	563	(2.9)	615	(3-2)	665	
Poland	505	12.40	87	(1.2)	505	12.71	511	(2.8)	-6	(2.7)	364	13.50	396	(3.3)	448	(2.7)	569	(2.7)	621	12,50	650	
Portugal	493	(2.9)	83	(1.4)	491	13.40	495	(3.0)	-3	(2.6)	354	14.00	354	(3.7)	436	(3.7)	551	(3.0)	601	(3.3)	627	-
Slovak Republic	490	0.00	95	(2.49	490	(4.63	493	(3.2)	-1	(4.1)	335	(6,60)	371	(4.9)	427	(3.59)	556	0.49	612	(6.1)	643	i
Skyrnia	512	0.13	94	(1.66	505	(1.7)	519	(13.6)	-14	(2.5)	355	(2.50)	387	(2.3)	646	(2.60)	580	(2.4)	633	D.M	661	
Spain	488	(2.1)	87	(1.1)	492	(2.5)	485	(2.3)	7	(2.3)	335	(7.5)	373	(3.2)	431	(3.0)	549	(2.2)	597	(2.2)	625	
Sweden	495	[27]	100	(1.5)	493	0.0	497	(3.2)	-4	0.0	327	(4.7)	367	(4.4)	429	(3.8)	564	(3.4)	622	(3.9)	854	
Switzerland	517	(2.8)	96	11,40	520	(3.2)	512	0.0	8	(2.7)	352	66.20	388	(3,6)	452	(3.5)	585	(3,4)	637	(3.8)	667	
Turkey	454	(3.6)	81	12.00	448	(3.8)	460	19-59	-12	(4.1)	322	(5.0)	350	(4.2)	397	D-31	510	64.60	560	(5.8)	587	
United Kingdom	514	(2.5)	99	17,49	519	0.69	509	(3.23	9	64.55	348	F4.53	365	0.60	447	6.71	583	(3.1)	640	(3.3)	672	9
United States	502	(3.6)	58	(1.7)	509	(4.25	495	(3.7)	14	(3.39	341	(4.8)	374	(4.5)	433	(3.9)	572	[4.7]	629	(5.1)	662	-
OECD total	196	(3.2)	100	(0.6)	198	(15)	191	(0.35	4	(1.5)	33T	(1.7)	366	(1.5)	127	(5 4)	568	(1.3)	625	(1.9)	657	17
OECD average	501	(0.5)	- 94	(0.3)	505	(0.6)	501,	(0.6)	1.9	(0.6)	341	15.06	377	80.8)	138	40.77	567	(0.6)	619	(0.6)	649	1
Albania	391	(3.9)	89	(1.7)	377	(1.8)	406	(4.0)	-29	(4,1)	242	(5.4)	276	(4.7)		(4.5)	656	(4.8)	504	(4.9)	532	
Argentina	401	(4.4)	102	(3.7)	397	(5.1)	404	(4.8)	-0	(1.5)	225	(104)	271	(7.4)	334	(5.5)	471	(5.5)	530	(6-6)	564	
Azerbaijan	373	(3.1)	74	(7-6)	370	(3.4)	377	(3.2)	-7	(2.6)	257	[4.9§	281	(4.0)	321	(3.4)	421	(3.7)	471	(5,1)	502	
drazil	405	(2.4)	84	(1.3)	407	(2.4)	404	(2.4)	- 3	(1.8)	275	(3.5)	302	(3.1)		(2.1)	458	(3.4)	517	(4.0)	554	
dulgaria	439	(5.5)	106	(2.5)	430	(6.8)	450	(5.1)	-20	(4.4)	263	(7.6)	302		367	(7.6)	514	(6.8)	575	(5.7)	607	
Colombia	402	(3.6)	81	(1.8)	41.3	(4.3)	392	(3.7)	21	(3.5)	268	(6.6)	298	(6.2)	348	(4.7)	457	(3.6)	506	(1.6)	536	
Creatia	486	(2-8)	85	(1-6)	482	(3.5)	491	(3.5)	-9	(4.7)	348	(4.7)	377	HJ01		(3.7)	516	(35)	595	(4.0)	624	
Duhai (UAE)	466	(1.2)	106	(9.1)	453	(1.8)	480	(1.6)	-27	(2.4)	294	(2.5)	330	(2.5)	391	(1.6)	542	(1.9)	606	(3.0)	638	
Hong Keng-China	549	(2.8)	87	(2.0)	550	(3-8)	548	(3.4)	3	(47)	393	(7.3)	432	(4.9)		(3.9)	610	(2.9)	655	(2.9)	681	
Indonesia.	383	(3.8)	69	(2.1)	378	(4-2)	387	(4.0)	-9	(3.3)	272	5.9	296	E-0	336	(3.7)	428	(4-6)	472	(6.2)	499	
[ordan	415	(3.5)	89	(2-1)	396	(5.5)	433	(4.2)	-35	(5.5)	264	(6.2)	301	(5-4)		(4.4)	477	(3.9)	526	(4.4)	556	
Kazakhstan	400	(3·1)	87	(1.7)	396	13:40	405	(3.5)	-9	(2.9)	262	(49)	293	[6:3]	342	(3.4)	458	(3.6)	515	(5.1)	549	
	330	(2.9)	91	(2.0)	318	(1.7)	340	(2.5)	-22	(3.1)	183	(4.5)	215	[6,1]		(3.5)	388	(3.4)	444	(2.0)	482	
Kyrgyzstan		(3.1)	78	(1.7)	490	(3.7)	497	(3.2)	-7	(3.4)	365	(5.7)	352	[6.5]		+4.1)	548	(3.2)	593	(4.0)	619	
Latvia	494				527	(5.0)	511	(5:1)	16	(7:5) (2:5)	373	(105)	402	(9.5)		(7.4)	583	(6.2)	631	(9.3)	659	
Latvia Liechtenstein	494 520	(3.4)		[3:4]								86.13	382	(4.5)		(3.7)	549	[3.2)	500	(3.9)	632	
Latvia Liechtenstein Lithuania	494 520 491	(2.5)	85	[2.1]	483	(3.5)	500															
Latvia Liechtenstein Lithuania Maczo-China	494 520 491 511	(2.0)	85 76	(2.1) (0.8)	510	(1.3)	512	(1.2)	-2	(1.5)	381	(2.5)	411	(1.9)		(2.0)	564	(1.7)	608	(2.5)		
Latvia Liechtenstein Lithuania Macao-China Montenegro	494 520 491 511 401	(2.5) (8.0) (2.0)	85 76 87	(2.1) (0.8) (1.4)	510 395	(1.3)	512 408	(1.2) (2.6)	-13	(1.5) (3.0)	381 257	(2.5)	290	(4.1)	343	(3.0)	461	(1.9)	512	(3.60)	543	
Latvia Liechtenstein Lithuania Mecao-China Montenegro Panama	494 320 491 511 401 376	(2.5) (8.0) (2.0) (5.7)	85 76 87 90	(2.1) (0.8) (1.4) (2.9)	510 395 375	(1.3) (2.4) (6.4)	512 408 377	(1.2) (2.6) (6.6)	-13 -2	(1.5) (3.0) (6.1)	381 257 232	(2.5) (4.6) (7.5)	290 260	(4.1)	343 315	(3.0)	461	(1.9) (6.7)	512 495	(3-6)	543 527	
Latria Licchtenstein Lithuania Maczo-China Montenegro Panama Peru	494 520 491 511 401 376 369	(2.0) (8.0) (2.0) (5.7) (3.5)	85 76 87 90 89	(2.1) (0.8) (1.4) (2.9) (2.1)	510 395 375 372	(1.3) (2.4) (6.4) (3.7)	512 408 377 367	(1.2) (2.6) (6.6) (4.4)	-13 -2 5	(1.5) (3.0) (6.1) (4.2)	381 257 232 225	(2.5) (4.6) (7.5) (5.3)	290 260 256	(4.1) (7.9) (4.5)	343 315 310	(3.0)	461 436 428	(1.9) (6.7) (4.2)	512 495 484	(3 (0) (8 (0) (6 4)	543 527 519	
Latria Liechtenstein Lithuania Macao-China Montenegro Panama Peru Qutar	494 520 491 511 401 376 369 379	(2.0) (1.0) (2.0) (5.7) (3.5) (0.9)	85 76 87 90 89 104	(2.1) (0.6) (1.4) (2.9) (2.1) (0.6)	510 395 375 372 346	(1.3) (2.4) (6.4) (3.7) (1.4)	512 408 377 367 393	(1.2) (2.6) (6.6) (4.4) (8.0)	-13 -2 5 -26	(1.5) (3.0) (6.1) (4.2) (1.7)	381 257 232 225 226	(2.5) (4.6) (7.5) (5.3) (2.4)	290 260 256 257	(4.1) (7.9) (4.5) (1.7)	343 315 310 306	(3.0) (7.7) (3.7) (1.5)	461 436 428 443	(1.9) (6.7) (4.2) (1.7)	512 495 484 524	(3 (0) (8 (0) (6 4) (2.5)	543 527 519 572	
Latria Lichtenstein Lithuania Macao-China Montenegro Panama Penu Qutar Romania	494 520 491 511 401 376 369 379 428	(2.0) (8.0) (2.0) (5.7) (3.5) (0.9) (3.4)	85 76 87 90 89 104 79	(2.1) (0.6) (1.4) (2.9) (2.1) (0.6) (1.5)	510 395 375 372 346 423	(1.3) (2.4) (6.4) (3.7) (1.4) (3.9)	512 408 377 367 393 433	(1.2) (2.6) (6.6) (4.4) (8.6) (9.7)	-13 -2 5 -26 -10	(1.5) (3.0) (6.1) (4.2) (1.7) (3.9)	381 257 232 225 226 361	(4.6) (7.5) (7.5) (2.4) (5.0)	290 260 256 257 327	(4.1) (7.9) (4.5) (1.7) (4.2)	343 315 310 306 373	(3.0) (7.7) (3.7) (1.5) (4.4)	461 436 428 443 463	(1.9) (6.7) (4.2) (1.7) (4.0)	512 495 484 524 530	(3 (0) (8 (0) (6 4) (2.5) (4 2)	543 527 519 572 558	
Latvia Licktenstein Lithuania Macao-China Montenegro Panama Peru Qatar Remania Russian Federation	494 520 491 511 401 376 369 379 420 478	(2.9) (1.0) (2.0) (5.7) (3.5) (3.9) (3.4) (3.1)	85 76 87 90 89 104 79	(21) (08) (14) (29) (21) (04) (13) (29)	510 395 375 372 346 423 477	(1.3) (2.4) (6.4) (3.7) (1.4) (3.9) (3.7)	512 408 377 367 393 433 480	(1.2) (2.6) (6.6) (4.4) (8.6) (3.7) (3.5)	-13 -2 5 -26 -10 -3	(1.5) (3.0) (6.1) (4.2) (1.7) (3.9) (2.5)	381 257 232 225 226 361 331	(2.5) (4.6) (7.5) (5.3) (2.4) (5.0) (5.0)	290 260 256 257 327 344	(4.1) (7.9) (4.5) (1.7) (4.2) (4.7)	343 315 310 306 373 416	(3.0) (7.7) (3.7) (1.5) (4.4) (4.0)	461 436 428 443 483 539	(1.9) (6.7) (4.2) (1.7) (4.0) (3.5)	512 495 484 524 530 594	(3 (0) (8 (0) (6 4) (2.5) (4 2) (4 5)	543 527 519 572 558 628	
Lativa Licchtensien Litthusnie Uthrusnie Meczo-China Montenegro Panarna Peru Qatar Romania Russian Federation Serbia	494 520 491 511 401 376 369 379 428 478 443	(2.0) (8.0) (2.0) (5.7) (3.5) (3.4) (3.1) (2.4)	85 76 87 90 89 104 79 90 84	(21) (08) (14) (29) (21) (04) (13) (20) (14)	510 395 375 372 346 423 477 442	(1.3) (2.4) (6.4) (3.7) (1.4) (3.9) (3.7) (3.1)	512 408 377 367 393 433 480 441	(1.2) (2.6) (6.6) (4.1) (8.6) (8.7) (8.5) (8.5) (8.5)	-13 -2 5 -26 -10 -3 -1	(1.5) (3.0) (6.1) (1.7) (3.9) (2.5) (3.5)	381 257 232 225 226 361 331 362	(2.5) (1.6) (7.5) (2.4) (2.4) (3.6) (3.6) (3.6)	290 260 256 257 327 364 334	(4.1) (7.9) (4.5) (1.7) (4.2) (4.4)	343 315 310 306 373 416 387	(3.0) (7.7) (3.7) (1.5) (4.4) (4.0) (3.1)	461 436 428 443 483 539 501	(1.9) (6.7) (4.2) (1.7) (4.0) (3.5) (3.0)	512 495 484 524 530 594 548	(3 6) (8 0) (6 4) (2.5) (4 2) (4 5) (3.3)	543 527 519 572 558 628 579	
Lahia Lichtenstein Lithuania Maczo-China Montenegro Panama Penu Qatar Romania Russian Federation Serbia Shanghai-China	494 520 491 511 401 376 369 379 420 478 443 575	(2.0) (1.0) (2.0) (3.7) (3.5) (3.9) (3.4) (3.1) (2.4) (2.3)	85 76 87 90 89 104 79 90 84 82	(2.1) (0.8) (1.4) (2.9) (2.1) (0.6) (1.6) (1.4) (1.4) (1.2)	510 395 375 372 366 423 477 442 574	(1.3) (2.4) (6.4) (3.7) (1.4) (3.9) (3.1) (3.1)	512 408 377 367 393 433 480 441 575	(1.2) (2.6) (6.6) (4.4) (8.6) (8.7) (8.5) (8.5) (8.5) (8.5)	-13 -2 -5 -26 -10 -3 -1 -1	(1.5) (3.0) (6.1) (4.2) (1.7) (2.5) (2.5) (2.5)	381 257 232 225 226 361 331 302 430	(2.5) (18) (7.5) (3.4) (3.4) (5.6) (5.6) (4.9)	290 260 256 257 327 364 334 467	(4-1) (7-9) (4-5) (4-2) (4-4) (4-4) (4-4)	343 315 310 306 373 416 387 523	(3.0) (7.7) (3.7) (1.5) (4.4) (4.0) (1.1) (2.9)	461 436 428 443 453 539 501 632	(1.9) (6.7) (1.7) (1.7) (4.0) (3.5) (3.0) (2.8)	512 495 404 524 530 594 548 674	(3-0) (8-0) (6-4) (2-5) (4-2) (4-6) (3-3)	543 527 519 572 556 628 579 700	
Latina Licchtenstein Litchtenstein Litchtenstein Litchtenstein Meacao-China Meotenegro Penu Qutar Romania Russian Federation Serbiu Shanghai-China Singapore	494 520 491 511 401 376 369 379 428 443 575 542	(2.5) (1.0) (2.0) (3.7) (3.5) (3.4) (3.3) (2.4) (2.3) (1.4)	85 76 87 90 89 104 79 90 84 82 104	(2.1) (0.8) (1.4) (2.9) (2.1) (0.6) (1.5) (1.6) (1.2) (1.1)	510 395 375 372 346 423 477 442 574 541	(1.3) (2.4) (6.4) (3.7) (1.4) (3.9) (3.1) (3.1) (1.8)	512 408 377 367 393 433 480 441 575 542	(1.2) (2.6) (6.6) (4.4) (8.6) (3.7) (3.5) (2.5) (2.5) (1.6)	-13 -2 5 -26 -10 -3 -1	(1.5) (3.0) (6.1) (1.7) (3.9) (2.9) (2.9) (2.9) (2.4)	381 257 232 225 236 301 331 302 430 362	(2.5) (4.6) (7.5) (5.4) (5.4) (5.4) (5.4) (6.6) (4.6) (4.6) (3.5)	290 260 256 257 327 364 334 467 401	(4-1) (7-9) (4-5) (4-5) (4-2) (4-4) (4-4) (3-1)	343 315 310 306 373 416 387 523 471	(3.0) (7.7) (3.7) (1.5) (4.0) (3.8) (2.9) (2.9)	461 436 428 443 453 539 501 632 617	(1.9) (6.7) (1.7) (1.7) (4.0) (3.5) (3.6) (2.8) (2.8)	512 495 404 524 530 594 548 674 673	(3-6) (8-0) (6-4) (2-5) (4-2) (4-6) (3-3) (3-6) (3-0)	543 527 519 572 556 626 579 700	
Littis Lichtenstein Lichtenstein Lithusnis Macao-China Macao-China Montenegro Panarna Peru Qutar Romania Russian Federation Serbiu Shanghai-China Singapore Chinese Taipei	494 520 491 511 401 376 369 379 420 478 443 575 542 520	(2.5) (1.0) (2.0) (5.7) (3.5) (3.4) (3.4) (2.4) (2.4) (2.5) (1.4) (2.6)	85 76 87 90 89 104 79 90 84 82 104 87	[21] [08] (14) (29) (21) (04) (15) (29) (14) (12) (1.1) (16)	510 395 375 372 366 423 477 442 574 541 520	(1.3) (2.4) (6.4) (3.7) (1.4) (3.7) (3.1) (3.1) (1.8) (3.7)	512 408 377 367 393 433 480 441 575 542 521	(1.2) (2.6) (6.6) (4.4) (8.6) (3.7) (3.5) (2.5) (2.5) (1.8) (4.6)	-13 -2 -5 -26 -19 -3 -1 -1 -1 -1	(1.5) (3.0) (6.1) (4.2) (1.7) (2.9) (2.9) (2.9) (2.9) (2.9) (2.9)	381 257 232 225 236 301 331 302 430 362 370	(2.5) (4.6) (7.5) (5.4) (5.4) (5.4) (6.4) (6.5) (4.4)	290 260 256 257 327 364 334 467 401 404	(4-1) (7-9) (4-5) (4-7) (4-4) (4-4) (4-4) (4-4) (4-4) (4-4) (4-4) (4-4) (4-4)	343 315 310 306 373 418 387 523 471 464	(3.0) (7.7) (3.7) (1.5) (4.0) (4.0) (2.0) (2.0) (3.1)	461 436 428 443 453 539 501 632 617 581	(1.9) (6.7) (1.7) (1.0) (3.5) (3.6) (2.6) (2.6) (3.3)	512 495 404 524 530 594 548 673 628	(3-6) (6-4) (2-5) (4-2) (4-6) (3-3) (3-0) (4-3)	543 527 519 572 556 628 579 704 664	
Latvia Licchtenstein Licchtenstein Licchtenstein Lichtenstein Maczo-China Monterego Panama Peru Qutar Romania Russian Federation Serbia Shanghai-China Singapere Chinese Taipei Thadard	494 520 491 511 401 376 369 379 423 478 443 575 542 520 425	(2.5) (1.0) (2.0) (5.7) (3.5) (3.5) (3.4) (2.4) (2.3) (1.4) (2.6) (3.0)	85 76 87 90 89 104 79 90 84 82 104 87 80	[21] [08] (14) (29) (21) (04) (13) (14) (14) (12) (11) (16) (20)	510 395 375 372 366 423 477 442 574 541 520 418	(1.3) (2.4) (6.4) (3.7) (1.4) (3.7) (3.1) (3.1) (3.1) (3.7) (3.8)	512 408 377 367 383 480 441 575 542 521 431	(1.2) (2.6) (6.6) (4.4) (8.6) (8.7) (8.5) (2.5) (2.5) (1.8) (4.6) (3.4)	-13 -2 -5 -24 -10 -3 -1 -1 -1 -1 -13	(1.5) (3.0) (6.1) (4.2) (1.7) (2.9) (2.9) (2.9) (2.4) (5.6) (4.0)	381 257 232 225 226 301 331 302 430 362 370 297	(2.5) (4.6) (7.5) (5.4) (5.4) (5.4) (6.9) (6.9) (4.4) (5.6)	290 260 256 257 327 344 334 467 401 404 326	(4-1) (7-9) (4-5) (4-2) (4-4) (4-4) (4-4) (3-1) (4-6) (4-6) (4-6)	343 315 310 306 373 416 387 523 471 464 373	(3.0) (7.7) (3.7) (1.5) (4.4) (4.0) (2.9) (2.9) (2.1) (3.2)	461 436 428 443 453 501 632 617 581 477	(1.9) (6.7) (4.2) (1.7) (4.0) (3.5) (2.6) (2.8) (2.0) (3.3) (3.3)	512 495 484 524 530 594 548 674 673 628 527	(3-6) (6-4) (2-5) (4-2) (4-6) (3-3) (3-6) (4-3) (4-3)	543 527 519 572 516 626 579 704 654 539	
Littis Lichtenstein Lichtenstein Lithusnis Macao-China Macao-China Montenegro Panarna Peru Qutar Romania Russian Federation Serbiu Shanghai-China Singapore Chinese Taipei	494 520 491 511 401 376 369 379 420 478 443 575 542 520	(2.5) (1.0) (2.0) (5.7) (3.5) (3.4) (3.4) (2.4) (2.4) (2.5) (1.4) (2.6)	85 76 87 90 89 104 79 90 84 82 104 87	[21] [08] (14) (29) (21) (04) (15) (29) (14) (12) (1.1) (16)	510 395 375 372 366 423 477 442 574 541 520	(1.3) (2.4) (6.4) (3.7) (1.4) (3.7) (3.1) (3.1) (1.8) (3.7)	512 408 377 367 393 433 480 441 575 542 521	(1.2) (2.6) (6.6) (4.4) (8.6) (3.7) (3.5) (2.5) (2.5) (1.8) (4.6)	-13 -2 -5 -26 -19 -3 -1 -1 -1 -1	(1.5) (3.0) (6.1) (4.2) (1.7) (2.9) (2.9) (2.9) (2.9) (2.9) (2.9)	381 257 232 225 236 301 331 302 430 362 370	(2.5) (4.6) (7.5) (5.4) (5.4) (5.4) (6.4) (6.5) (4.4)	290 260 256 257 327 364 334 467 401 404	(4-1) (7-9) (4-5) (4-7) (4-4) (4-4) (4-4) (4-4) (4-4) (4-4) (4-4) (4-4) (4-4)	343 315 310 306 373 416 387 523 471 464 373 335	(3.0) (7.7) (3.7) (1.5) (4.0) (4.0) (2.0) (2.0) (3.1)	461 436 428 443 453 539 501 632 617 581	(1.9) (6.7) (1.7) (1.0) (3.5) (3.6) (2.6) (2.6) (3.3)	512 495 404 524 530 594 548 673 628	(3-6) (6-4) (2-5) (4-2) (4-6) (3-3) (3-0) (4-3)	543 527 519 572 556 628 579 704 664	

Note Values that are statistically significant are indicated in hold (see Armex A3). Statistically (ignit http://dx.doj.org/10.1787/8895234388



[Fart 1/1]
Table [3.7 Overlapping of top parformers in reading, mathematics and colonia

								15-yea	rold sta	dents w	bo are:							Perce	ntage o
		perk in arr	top omers of the	perki	op omens ly in	perfo	op omens ly in matics		y in	reads maths but r		reads scie but s	op mens in ing and ince sot in metics	mathe and s	op mers in matics cience set in dins	perfe in all	op emens three	who perf all math	rionne rading are top omers so in ematic science
		14.	S.E.	%	SE	%	S.E.	5	S.E.	%	S.E.	%	S.E.	45	S.E.	%	S.E.	1%	S.E.
4	Australia	78.2	(7.09	2.0	(0.3)	4.1	(0.3)	1.9	(0.2)	1.1	(0.2)	1.5	(0.2)	3.0	(0.3)	81	(0.7)	63-8	0.5
	Austria	81.7	(0.9)	0.7	(0.2)	5.8	(0.5)	1.0	(0.2)	0.6	(0.2)	0.5	(0.2)	2.6	(0.4)	2.9	(0.4)	59.2	[4.9]
	Belgium	76.3	(0.8)	2.0	(0.3)	9.0	(0.5)	0.8	(0.1)	2.6	(0,40)	0.5	(0,1)	2.7	(0.5)	6.1	(0.5)	54.8	(3.3)
	Canada	76.4	(0.6)	2.5	(0.2)	6.7	(0.4)	1.5	(0.2)	2.2	(0.2)	1.3	§0.29	2.6	(0.2)	4.8	(0.4)	52.9	[2.0]
	Chile	27.6	(0.4)	0.6	(0.2)	0,0	(0.2)	0.4	(0.1)	0,2	(0.1)	0.1	(0.1)	0.2	(0.1)	0.3	(CL1)	27.2	(4.3
	Czech Republic	85.6	(0.9)	8.0	(0.1)	4.6	(0.5) (0.6)	1.5	(0.3)	0.7	(0.1)	0.5	40.1)	3.2	(0.4) (0.4)	3.2	(0.4)	54.8	(A.B
	Estonia	83.8	(1.00	0.8	(0.2)	43	80.40	27	(0.5)	0.8	(0.2)	0.7	(0.2)	3.1	10.40	3.6	(0.5)	63.4	14.3
	Finland	70.6	(7.0)	2.5	(0.3)	6.8	60.43	3.2	(0.4)	1.4	80.25	2.1	00.30	49	(0.4)	8.5	(0.5)	58.8	(3.1
	France	82.2	(1.2)	2.6	(0)-40	5.3	(0.4)	0.7	(0,2)	1.8	(0.3)	0.8	80.20	2.2	60.33	4.4	(0.6)	46.3	14.0
	Germany	785	(0.1)	12	(0.2)	6.5	(0.6)	1.7	(0.3)	1.0	(0.2)	0.7	(0.2)	5,6	(0.4)	4.7	(0.6)	61,5	(4.5
	Grece	90.1	(0.7)	3.1	(9.3)	2.9	(0.4)	0.7	(0.2)	0.9	(0.2)	0.4	(01)	0.7	(0.2)	1.2	(0.2)	22.0	(3.0)
	Hungary	87.6	(1.1)	1,5	(0.3)	43	(0.6)	0.5	(0.2)	1.2	(0.3)	0.3	(0.1)	1.5	(0.2)	3.0	(0.5)	49.9	(5.2
	Iceland	83.4	(0.7)	1.9	(0.3)	5.7	(0.6)	0.7	(0.1)	2.0	(0.4)	0.4	(0.2)	17	(0.3)	4.2	(0.5)	48.8	(4.2
	treland total	87.6	(0.5)	2.0	(0.3)	1.4	(0.4)	22	(0.4)	0.3	(0.1)	1.6	(0.3)	18	(0.1)	3.2	(0.4)	45.3	(4.2
	tsrael	89.6 87.4	(0.8)	2.0	(0.4)	40	(0.3)	10	(0.1)	13	(0.3)	0.6	(0.1)	1.9	(0.1)	2.2	(0.3)	389	(3:3
	trany Japan	73.3	(1-2)	2.0	60.29	6.1	(0.5)	2.1	80.33	1.4	(0.1)	1.5	60-23	5.0	(0.2)	8.6	(0.2) (0.8)	62.3	(2.5
	Korea	71.5	(1.7)	1.7	(0.2)	11.6	40.80	0.6	80.29	3.6	(0.5)	0.4	40.23	3.2	(0.5)	7.2	(0.0)	56.1	0.3
	Luxembourg	85.5	(0.7)	1.4	(0.2)	5.5	(0.1)	1.1	(0.2)	09	(011)	0.7	(0.2)	2.2	(0.5) Except	2.8	(D 4)	48.4	[4,8
	Mexico	99.0	(0,1)	0.2	40.19	0.5	60,13	01	\$3.09	0.1	60-50	0,0	\$0.00	0.1	(0.0)	0.1	(9.0)	16-2	[4.5
	Netherlands	77.2	(8.1)	8.0	(0.2)	8.0	(0.7)	1.3	(0.3)	1.3	(0.3)	0.9	(0.3)	3.7	(0.5)	6.8	(0.8)	69.6	[3.5
	New Zealand	742	(0.5)	2.3	(0.3)	4.4	(0.4)	2.5	(0.5)	1.5	(0.3)	2.1	\$0.39	3.1	(0.4)	9.9	(0.7)	63,0	(2.3
	Norway	85.5	(1.0)	2.6	(0.4)	3.7	(0.4)	0.9	(0.2)	1.7	(0.3)	0,7	(0.2)	1.4	(0.2)	3.4	10.40	40.2	13-6
	roland	857	(0.8)	2.0	(0.3)	3.7	(0.5)	1.3	(0.3)	1.1	(0.2)	0.7	(0.2)	2.1	(0.3)	3.5	(0.4)	48.2	0.5
	Portugal	88.2	(0.9)	0.7	(0.2)	5.0	(0.5)	0.5	(0.1)	13	(0.3)	0.3	(0.1)	1.5	(0.2)	1.9	(0.3)	39.1	[4.5
	Slovak Republic Slovenia	83.4	(0.7)	0.4	(0.2)	5.6	(0.5)	1.7	(0.2)	0.6	(0.2)	0.2	(0.1)	4.5	(0.3) (0.4)	2.4	(0.4)	72.5	(5.0
	Spain	89.7	(0.7)	0.4	(0.1)	4.6	(0.3)	1.0	(0.1)	0.6	(0.2)	0.2	(0.2)	1.3	03.4)	13	(0.4)	38.7	(6.6
	Sueden	84.1	(1.1)	2.6	(0.4)	18	(0.5)	1.0	(0.3)	13	(0.3)	0.9	(0.2)	1.9	(0.3)	6.3	(0.5)	67.2	64.1
	Switzerland	73.5	(1.4)	1.2	02.75	12.6	(0.8)	0.0	(5.2)	18	(0.3)	0.3	60.13	47	60.53	4.0	40.60	58.0	(3.5
	Turkey	22.6	(1.2)	0.6	(0.2)	4.1	(0.0)	0.1	(0.1)	0.6	(0.2)	0.1	(0.0)	0.4	00.11	0.6	40.21	31.0	(7.5
	United Kingdom	84.5	(0.81	1.3	(0.2)	2.2	(0.3)	27	0.4	06	60.25	1.6	(0.2)	2.4	00:33	4.6	(0.4)	57.3	3.7
	United States	85.2	[1.1]	2.1	(0.4)	2.5	(0.3)	1.2	(0.2)	1.0	00 ZE	1.5	(0.3)	1.2	(0.3)	5.2	(0.4)	52.8	(4.6
ı	OfCD total	84.6	(0.4)	1.6	(82.5)-	4.8	(01)		\$1.25	tit	(U. b)	0.7	40.19	2.1	10.17	4.1	(0.2).	259	(0.2
١	OECD average	83.7	(0,2)	3.6	10.01	5.0	(6.1)	12	10.01	10	0.0	8.0	00,00	2.5	62.17	361	(0.1)	49.9	608
	Albania	39.4	(0.2)	0.1	(CL1)	0.3	(0.1)	01	(0.0)	0.0	(0.0)	0.0	10	0.0	c	0.0	c	0.0	
	Argentina	98.2	(0.4)	0.6	(0.2)	0.4	(0.2)	0.2	(0.1)	0.1	(0.1)	0.1	(0.1)	0.1	(0.1)	0.2	(0.1)	17.3	(11.5
	Azerbaijan	98.9	(0.4)	0.0	(0.0)	1.1	(0.4)	0.0	(0.0)	0.0	C	0.0	C	0.0	m m	0.0	(D 1)	0.0	
	Bruril	98.2	(0.3)	10	(0.1)	1.8	(0.1)	0.1	(0.0)	0.2	(0.1)	0.1	(0.1)	01	(U.D)	03	(0 1) (0 3)	19.4	(5.2
	Bulgaria Colombia	99.3	(9-2)	0.4	(0.3)	0.1	(0.5)	08	(0.2)	0.0	(0.2)	0.1	(0.1)	0.0	(0.2)	0.0	(0.0)	31.8	D-0
	Creatia	92.7	(02,80	1.2	60.25	2.1	(0.4)	0.7	(0.2)	03	80.23	0.4	60.10	1.3	(0.3)	1.2	(0.0)	17.8	(7.5
	Dubai (UAE)	90.1	(0.4)	1.4	00.25	2.3	60.30	1.1	(0.2)	0.7	80.20	0.9	60.23	1.2	(0.3)	2.3	(0.3)	43,0	(5.1
	Hong Kong-China	668	(1.2)	1.2	60.29	13.3	60-80	10	(0.2)	2.5	(0.3)	0.4	(0.1)	6.5	10.60	8.4	(0.7)	67.3	0.7
	Indonesia	22.5	(0.1)	0.0	C	01	(0.1)	0.0	Court	0.0	C.	0.0	C	0.0	E	0.0	C	00	(711
	Joedan	99.2	(0.3)	0.1	(0.1)	0.1	(0 1)	63	(0.1)	0.0	(0:0)	0.1	(0.1)	0.1	(0.1)	0.0	(0.0)	13-0	(11.1
	Kazakhstan	98.5	(0.5)	0.2	(0.7)	0.9	(0.4)	0.1	(0.1)	0.1	(0.1)	0.0	c	0.1	(0.1)	0.1	(0.0)	19.3	(10.5
	Kyrgyzstan	998	(0.1)	0.1	(0.1)	0.0	(0.0)	0.0	c	00	c	00	c	0.0	c	00	c	00	
	Latvia	92.2	(0.7)	3.1	(0.2)	3.0	(0.4)	0.8	(0.3)	0.6	(0.2)	0.2	(0.1)	1.1	(0.2)	1.0	(0.2)	33.6	(5.4
	Liechtenstein	799	(2.3)	0.0	С	9.4	(2.0)	17	(1.3)	0.9	(0.7)	00	c	43	(1.4)	3.5	(1.3)	75.3	(19.
	Lithuania Maran China	91.2	(0.7)	0.5	(0.1)	123	(0.5)	1.0	(0.2)	0.5	(0.2)	0.3	(0.1)	1-6	(0.3)	1.6	(0.3)	55.6 49.6	(7.1
	Macao-Chesa Mostenegro	98.6	(0.4)	03	(0.1)	0.7	(0-6)	0.1	(0.1)	01	(0.2)	00	(91)	D1	(0.4)	0.1	(0.1)	144	(5.0
	Panima	99.2	(0.2)	0.4	(0.2)	0.2	(0.1)	0.1	(0.0)	0.1	(0.1)	20	(00)	0.0	(0.1)	0.1	(0.1)	15.9	05.5
	Peru	99.2	(D.3)	0.3	(0.1)	0.4	(0.2)	0.0	- C	0.1	(0.1)	0.0		0.0		0.1	60.11	21.9	(13.1
	Oatar	97.0	(0.3)	0.6	(0.1)	0.7	(0.2)	0.4	(3.1)	03	(0.1)	0.3	00.71	0.0	60.13	0.6	(0.1)	33.3	(4.1
	Komania	98.2	(0.4)	0.4	(0.1)	0.9	(0.3)	0.1	(01)	01	(D.1)	0.1	(0.0)	D1	(0.1)	0.1	(0.1)	19.2	(10.1
	Russian Federation	92 1	(0.8)	0.8	(0.2)	2.3	(0.4)	1,4	(0.3)	0.5	(01)	0.5	(0.2)	1.1	(0,3)	1.4	(0.3)	44.5	(61
	Serbia	95.9	(0.5)	0.3	(0.1)	2.5	(0.5)	0.2	(0.1)	0.2	40.1)	00		0.5	(0.1)	0.3	(0.1)	32.7	D8 3
	Shanghai-China	48.3	(1-2)	0.5	(01)	22.8	(0.5)	0.6	(0.2)	4.1	(0.5)	0.2	(0.1)	8.8	(0.6)	14.6	(0.9)	75-2	[2:
	Singapore	62.4	(0-8)	0.6	(0.2)	14.5	(0.7)	1.0	(0.2)	2.5	(0.2)	03	(0.1)	6.3	(0.4)	12.3	(0.5)	78 1	(24
	Chinese Taipei	71.0	(1.5)	0.1	(0.1)	18.9	(8.1)	0.3	(0.1)	1.1	(0.2)	0,1	10.00	4.6	(0.4)	3.9	(0.7)	743	[6,2
	Thailand	98.5	(0.5)	0.0	(0.0)	8.0	(0.2)	01	(0.1)	01	(0.0)	00	(01)	0.3	(0.1)	0.2	(0.1)	62.6	(12)
	Trinidad and Tobago	95.5	(0.3)	1.1	(0.2)	1.2	(0.2)	0.6	(0.1)	0.4	(0.1)	0.4	(0.1)	0.5	(0.2)	0.5	(0.2)	20.5	(6.3
	Tunisia Uruguay	99.5	(0.4)	0.8	(0.1)	13	(O 1) (O.2)	0.5	(0.1)	0.0	10.10	0.0	00.10	0.0	(0.1)	0.4	(0,1)	24.4	16.3

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									Doys										entege
		perfe in an	t top inners r of the domains		op irmers sky oding	perfo	op omers dy is ometics	perfo	op inners sly	readi math but	op mers in ng and maties not in mee	reads scie	op mers in ng and nace not in matics	math and a	op mers in ematics coence not in ding	perfe	op inners Three	in a who perfor	oy top ormen cading are top mensalso hematics science
		%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	14	S.E.
8	Australia	77,8	(7.1)	0.5	\$0.23	5.4	(0.4)	2.4	60.31	0.6	(0,1)	8.0	(0-2)	4.7	(0.4)	7.9	(0.8)	80.9	(3.2)
ogo	Austria	82.1	(1.2)	0.1	(0.1)	7.7	(0.7)	1.4	(0.4)	0.1	(01)	0.3	(0.1)	6.0	(0.8)	2.3	(0.4)	82.2	(6.1)
0	Belgism	73.7	(1.2)	0.9	10.33	12.0	(0.9)	8.0	60.23	1,8	(0.31	9.3	(0.1)	4.0	(0.6)	6.5	(0.7)	69.3	(3.7)
	Canada	75.4	(0.8)	0.5	(0.2)	21	(0.6)	2.0	(0.3)	1.3	(0.2)	0.7	(D2)	4.1	(0.3)	6.5	(0.4)	69.8	(5.2)
	Chile	97.4	(0.6)	0.3	(0.2)	0.8	(0.3)	0.5	(0.2)	0.2	(0.2)	0.1	(0.1)	0.3	(0.1)	0.5	(0.3)	463	(21.5)
	Czech Republic	85.9	(1.2)	0.1	(0.1)	5.6	(0.7)	1.4	(0.3)	0.1	(0.2)	0.1	(D.1)	4.3	(0.7)	2.3	(0.4)	81.8	(6.8)
	Denmark	84.3	(1.0)	0.2	(0.2)	6.7	(0.59	1.7	(0.4)	0.3	(0.1)	0.2	(0.2)	4.1	(0.5)	2.4	(0.4)	75 9	(6.8)
	Estenia	83.2	(1.1)	0.1	(0.1)	5.7	(0.6)	31	(0.5)	0.3	(0.2)	0.2	(0.1)	4.6	(0.7)	2.9	(0.5)	84.7	(6.0)
	finland	72.3	(1.2)	0.4	(0.3)	9.2	(0.8)	3.2	(0.5)	0.6	(0.2)	0.8	(0,3)	7.2	(0.6)	5.4	(0.6)	79,6	(67)
	France	80.7	(1.4)	0.6	(0.2)	7.6	(0.7)	1.0	(0.3)	1.0	(0.4)	0.5	(0.2)	3.8	(0.6)	4.9	(0.8)	70.2	(5.6)
	Germany	76.9	(1.2)	0.1	(0.1)	8.2	(0.7)	2.0	(0.4)	0.3	(CL1)	0.3	(0.5)	8.6	(0.7)	3.7	(0.5)	84.3	(8.9)
	Greece	90.0	(1.0)	1.3	(0.3)	47	(0.8)	0.8	(0.2)	8.0	(0.3)	0.1	(0.1)	1.1	(0.3)	1.2	(0.3)	34.7	(7.3)
	Hungary	86.8	(1.4)	02	(0.1)	6.2	(1.0)	0.7	(0.2)	0.7	(0.3)	0.1	(0.1)	24	(0.4)	2.9	{0.5)	74.4	_ (6.3)
	Iceland Ireland	83 1	(1.1)	0.5	(0.2)	7.4	(0.9)	1.0	(0.2)	08	(0.3)	0.3	(0.2)	28	(0.5) (0.6)	41	(0.5) (0.4)	72.4 62.5	(7.2)
		89.1		1.8	(0.4)	2.2	(0.6)	9.8	(0.5)	13	(0.1)	0.6	(0.3)	09	(0.6)	2.8	(0.4)	43.3	
	Israel	35.4	(1.2)	0.5	60.15	5.5	(0.4)		(0.2)	0.6	(0.1)	0.3	40.1)	3.0		2.4	(0.5)	61.6	(4.9)
	Italy Japan	73.4	(1.8)	0.5	60.73	8.4	(0.4)	1.2	(0.2)	1.2	(0.2) (0.3)	0.5	(0.1) (0.2)	6.9	(0.2)	2.6	(0.3)	749	(5.0)
	Korea Korea	72.4	(7.3)	9.3	(0.1)	13.9	(3.9)	0.9	(0.4) (0.2)	2.0	(0.4)	0.2	(0.2)	45	(0.7)	6.5	(1.1)	74.9	(4.0)
	Luxembours	83.5	(1.0)	0.0	Conti	7.9	10.50	1.4	(0.3)	0.5	ED 31	0.2	(0.1)	3.6	(0.5)	2.8	(0.6)	75.7	(11.2)
	Mexico	98.8	(0.2)	9,1	10.49	0.7	(0.2)	0.1	(0.1)	0.1	[0.0]	0.0	(0.0)	0,1	(0.3)	0.1	(0.0)	28.4	(9.9)
	Netherlands	75.4	(3.5)	0.2	(0.1)	10.6	(1.0)	1.1	(0.3)	0.7	(0.2)	0.3	(0.3)	5.2	(0.7)	6.5	(0.9)	83.6	(3.9)
	New Zealand	74.0	(1,3)	0.5	(0.7)	5.7	(0.6)	3.2	(0.5)	0.9	(0.3)	0.8	(0.2)	5.2	(0.6)	9.7	(0.5)	81.5	(2.8)
	Norway	86.4	(1.0)	0.5	60.10	5.2	10.60	1.1	(0.3)	1.0	50.20	0.3	ED 1)	2.3	0.60	3.1	0.5	62.0	(4.9)
	Poland	85.9	(7.7)	0.4	40.20	4.5	(0.7)	1.7	60.40	0.5	60.13	0.3	40.2)	3.3	(0.5)	3.2	(0.5)	73.6	(6 D)
	Portugal	82.4	(1-1)	0.4	(0.2)	65	(0.7)	-06	40.73	0.8	40.53	0.1	E0.20	2.2	10.40	1.9	0.40	581	(8.7)
	Slovak Republic	81.8	(1.2)	0.0	6	7.2	(0.8)	1.3	(0,4)	0.4	(0.1)	0.1	(0.1)	4.4	(0.5)	2.0	(0.4)	79.0	(7.1)
	Slovenia	83.3	(1.0)	0.0		7.0	(0.7)	1.5	50.39	0.2	(0.2)	0.0	E	6.2	(0.6)	1.7	(0.5)	85.9	(8.8)
	Spain	87.9	60-77	0.3	40.50	6.2	40.5)	13	\$2,29	0.6	02-1)	0.2	60.1)	2.1	(0.5)	13	(0.2)	55.4	(5.7)
	Sweden	85.3	(1.3)	0.8	(0.3)	45	(0.7)	1.4	(0.4)	0.6	(0.3)	0.5	40.33	2.5	(0.4)	3.9	(0.6)	65-6	(6.4)
	Switzerland	70.7	(1.6)	0.2	(0.2)	16.3	(1.4)	0.9	(0.3)	0.7	(0.2)	0.1	(0.1)	6.9	(01.69	4.1	(0.5)	79.7	(5.5)
	Turkey	93.3	(1.4)	0.1	60.15	5.3	(1.2)	9.0		0.4	(9.2)	0.0		0.5	(0.2)	0.3	(0.1)	41.4	(13-1)
	United Kingdom	82.9	(1.3)	0.4	(0.2)	3.2	(0.6)	31	(0.5)	0.4	(0.2)	0.9	(0.3)	3.8	(0.5)	5.3	(0.6)	75.7	(4.3)
	United States	34.4	(1-3)	0.8	(0.3)	3.6	(0.7)	1.7	(0.4)	0.6	(0.3)	1.2	00.33	2.1	(0.4)	5.5	(0.9)	67.6	(5:4)
	OCCD total	83.8	(0.4)	0.5	30.71	5.6	(0.2)	14	67(3),	07	10 11	4.0	30.1)	33	(D Z)	4.2	(0.3)	707	(2.2)
	OECD average	33.0	.00.25	0.5	10.0	6.6	(0.1)	1.5	65,0	0.7	10.06	84	(0,0)	37	(0,1)	3,6	80,13	1,69.7.	(1.3)
5	Albaria	99,4	(0.2)	0.0	E	0.5	(0.2)	CLO	C	0.0	E	CLU	c	0.0	С	0.0	С	0.0	c
Partners	Argentina	98.2	(0.4)	0.3	(0.2)	0.7	(0.3)	0.3	(0.2)	0.1	(0.1)	0.1	(D.1)	0.2	(0.2)	0.1	(0.1)	180	(13.6)
â	Azerbaijan	98.9	(0.4)	0.0	c	1.0	(0.4)	0-0	(0.0)	0.0	0	0.0	c	0.0	c	0.0	c	0.0	c
	Brazil	98.3	(0.4)	0.4	(0.1)	0.5	(0.2)	0.1	(0.1)	0.2	[01]	0.1	(0,1)	0,1	(0.1)	0.3	(0.1)	32.0	(8.5)
	Bulgaria	94,6	{1.0)	0.2	(0.1)	2.2	(0.5)	09	(0.4)	0.6	(0.3)	0.2	(0.2)	0.8	(0.3)	0.7	(0.3)	49.4	(11.4)
	Colombia	99-3	(OL3)	0.3	(0.2)	0.1	(0.1)	0.1	(0.1)	0.1	(0.1)	0.0	c	0.0	c	0.0	(0.0)	7.8	(73)
	Croatia	92.9	(0.8)	0.3	(0:1)	3.0	(0.5)	0.6	(0.3)	0.2	(0.1)	0.1	(3.1)	2.0	(0.5)	0.9	(0.3)	61.7	(13.9)
	Dubei (LME)	500	(0.6)	0.6	(0.2)	3.3	(0.5)	10	(0.3)	0.7	(0.5)	0.4	(0.2)	1.7	(0.4)	2.3	(0.4)	57.8	(2:1)
	Hong Kong-China	64-6	(1.2)	0.2	(0.1)	16.3	(1.0)	1.1	(0.3)	1,3	(0.3)	0.2	(0.1)	9.1	(1.0)	7.2	(0.9)	80.5	(2.8)
	Indonesia	99.9	(0.1)	0.0	c	01	(0.1)	0.0	C	0.0	c	0.0	c	0.0	c	0.0	c	0.0	c
	Jordan	99.5	(0.3)	0.0	c	0.1	(0.1)	0.2	(0.1)	0.0	c	0.0	0	0.1	(0.1)	0.0	c	0.0	c
	Kazakhstan	98.5	(0.5)	0.1	(01)	9.9	(0.4)	01	(0.1)	01	(0.1)	0.0	c	0.2	(0.2)	0.0	c	0.0	c
	Kyrgyzstan	99.9	(0.1)	0.0	c	0.3	(0.1)	0.0	c	0.0	0	0.0	C	0.0	c	0.0	c	0.0	c
	Latvia	92.0	(0.9)	0.2	(0.2)	3.7	(0.5)	1.0	(0.4)	0.3	(0.2)	0.0	c	1.7	(0.4)	0.9	(0.3)	58.6	(13-2)
	Liechtegstein	76.4	(3.8)	0.0	c	12.5	(14)	2.0	(1.4)	00	c	0.0	C	5.9	(2-3)	2.8	(1.6)	91.6	(18.0)
	Lithuania	92.0	(0.8)	0.0	c	3.8	(0.6)	8.0	(0.2)	0.0	c	0.0	С	2.4	(0.5)	0.8	(0.2)	89.1	(11.6)
	Macae-China	79.6	(0.7)	0.0	c	14.8	(7.0)	0.6	(0.3)	0.5	(0.2)	0.0	0	33	(0.6)	7.2	(0.2)	68-5	(8-4)
	Montenegro	98.5	(02-4)	0.0	c	0.3	(0.3)	0.0	c	0.0	c	0.0	E	0.0	c	0.1	(0.1)	38.1	(29-5)
	Panama	99.3	(0.3)	0.0	(0.1)	0.3	(0.2)	01	(0.1)	01	(0.1)	00	c		0		c	00	t
	Peru	98-7	(0.4)	0.2	(01)	1.0	(0.3)	0.0	(D 1)			D2	(O 1)	0.0	C	0.2	(0.1)	29-8	(15-5)
	Qutar	968						0.4		03	(0.1)				(0.1)	0,7	(0.1)	48 1	
	Romania Russian Federation	981	(0.5)	0.0	0.11	1.3	(0.5)	1.6	(0.1)	01	(0.1)	00	40 11	1.5	(0.2)	1.2	(0.1)	701	(10.3)
				0.2		3.6	(0.6)	0.2	(0.5)	0.2	(0.1)	0.0		0.8		0.3		50.5	
	Serbia Shanghai-China	94.9	(0.7)	00	c	3.6	(3.7)	02		1.2	(0.1)	0.0	(0.1)	11.0	(0.3)	11.9	(0.1)	90.2	(18.7)
		49.0 61.7	(1.0)	0.0	(0.1)	16.4	(1.1)	1.0	(0.3)	1.2	(0.3)	01	(0.1)	8.7	(0.8)	10.8	(0.9)	90.2	(1.9)
	Singapore Chinese Tripel	68.7	(1.0)	9.0	(0.1)	21.5	(1.1)	10	(0.2)	0.3	(D.3)	0.2		63	(0.7)	29	(0.7)	886	(2.9)
			(1.9)			21.5	(1.4)		(0.1)		(0.2)		C		(0.4)		(0.7)	77.2	(4.5)
	Thailand Trinidad and Tobaso	98-5	(0.5)	0.0	40.20	13	(0.3)	0.1	(0.1)	0.0	10.11	0.0	(2.1)	0.3	(0.2)	01	(0.1)	77 2 38 3	(12.7)
	Transdard and Tobugo Tuessia	99.3	(0.5)	0.2	(0.2)	0.1	10.39	0.1	(0.2)	0.1	(0.1)	0.2	(31)	0.7	(0.3)	0.0	(0.1)	383	(12.7)
		99.3		83	· · ·	1.8	(0.2)	01		62	(D.1)	0.0		0.1	(0.1)	0.0	(B.2)	0.0	(9.8)
	Urugsay		(07-6)						69.20				(3.1)						



[Fart 2/2]
Table 1.3.8 Overfaceing of too performers in reading, mathematics and science, by gend

									Cirls w	ho are:								Pres	maker
		perfe in an	top irmers of the domains	persis or in re	εĥγ		ly in	perto	op immers oly icocc	readi mathe but r	op mers in ng and matics set in mee	reads scie	op mers in ing and ince not in matics	reaths and s	mers in matics corner set in ding	perfe in all	op omers three sains	of g peri in r who perior	orners cading are top mers als thematic science
		%	S.E.	5	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	74	S.E.
3	Australia	78,7	(7.1)	3.3	(0.4)	2.9	(0.40	7,4	(0.2)	1.7	(0.33	2.2	60.33	1.6	(0.2)	8.3	60.71	53.6	(2.8)
ř	Austria	87.1	(1:2)	1.7	(0.4)	4.0	(0.6)	0.6	(0.2)	1.0	(0.3)	0.7	(0.3)	1.6	(0.4)	3.4	(0.6)	50.1	(6.1)
١	Belgism	79.1	(2.0)	3.1	(0.49	5.9	(0.5)	80	(0.23	3.4	(0.6)	0.7	(0.2)	7/3	(0.3)	5.7	(0.6)	43.7	(4.0)
	Canada	77.5	(0.2)	4.3	(0.3)	4.3	(0.3)	10	(0.2)	3.1	(0.4)	1.8	(0.3)	1.0	(0.2)	7.0	(0.5)	43:0	(2.4)
	Chile	97.7	(0.5)	0.9	(0.3)	0.3	(0.2)	0.3	(0.2)	0.2	(0.2)	0.2	(0.1)	0.1	(0.1)	0.2	(0.1)	148	
	Czech Republic	85.3	(0.5)	1.5	(0.3)	3.4	(0.4)	1.6	(0.4)	1.1	(0.5)	0.8	(0.2)	1.9	(0.4)	4.3	(0.6)	55.0	(5.1)
	Denmark	87.8	(1.0)	1.4	(0.4)	43	(0.7)	0.6	(0.2)	1.5	(0.4)	0.6	(0.2)	1.1	(0.4)	2.7	(0.4)	44.3	(5.6)
	Estonia	843	(1.4)	1.5	(0.4)	29	(0.6)	2.3	(0-6)	1.3	(0.4)	1.3	(0.4)	1.5	(0.4)	49	(0.7)	54.9	(5.6)
	finland	68.9	(1.2)	4.6	(0.5)	4.5	(0.7)	3.1	(0.5)	2.2	(0.4)	3.5	(0,6)	2.6	(0.5)	10.6	(0.9)	33.2	04
	France	83.7	(1.6)	23	(0.7)	3.1			(0.2)		(0.5)	1.0	10.30		(0.3)	4.0	(0.6)		(6.0)
	Germany	80.2	(1.3)		(0.3)	1.2	(0.7)	0.7	(0.3)	1.0	(CL4)	1.2	(0.5)	0.3	(0.4)	5.7	(0.5)	52.0	(5.4)
	Greece	90.1	(0.9)	2.8	(0.6)	2.4	(0.4)	0.7	(0.3)	1.0	(0.3)	0.7	(0.2)	0.3	(0.1)	13	(0.3)	16.6	B-5
	Hungary Iceland	83.6	(1.0)	3.4	60.50	4.0	(0.5)	0.4	(0.2)	3.2	(0.5)	0.5	(0.3)	0.6	(D.2) (D.3)	4.7	(0.5)	37.2	(4.9)
	Ireland	85.6	(1.1)	3.3	(0.7)	6.0	(0.5)	1.9	(0.2)	0.3	(0.6)	2.3	40.40	0.7	(CL3)	3.5	(0.8) (0.0)	36.9	(5.2)
	Israel	90.0	(0.9)	47	(0.6)	6.7	(0.2)	0.5	40.20	1.4	(0.3)	0.7	(0.2)	0.2	(0.1)	1.7	(0.4)	19.4	(3.7
	Italy	88.4	(0.4)	35	(0.1)	23	(0.2)	0.7	80.11	11	(0.3)	1.1	40.1)	0.7	40 1)	2.3	(0.2)	77.1	(2.3
	lapan	74.3	(1.7)	3.7	10.0	3.7	(0.0)	2.1	80.40	1.6	(0.0)	2.5	(0.4)	2.9	m.61	9.2	(1.2)	54.2	0.8
	Kozea	72.1	(2.1)	3.2	(0.49	91	10.59	0.6	(0.2)	5.3	(0.5)	0.7	(0.3)	1.3	(0-0)	7.7	(0.5)	45.5	(3.4
	Luxembourg	87.7	(0.6)	2.6	10.53	3.1	(0.4)	0.7	(0.23	1.2	(0.4)	1.1	(0.4)	0.8	(0.2)	2.7	(0.3)	35.1	3.6
	Mexico	99.2	(0.2)	0.3	10.17	0.2	60.73	0.0	(0.0)	0.1	(2.1)	0.0	(0.0)	0.0	80.01	0.0	(0.0)	8.6	05.4
	Netherlands	78.9	(1.9)	1.4	(0.3)	5.6	(0.8)	14	(9.4)	1.8	(0.6)	1.5	(0.5)	2.3	(0.5)	7.1	(0.9)	60.5	(5.1
	New Zealand	74.5	(3.2)	4.1	(0.6)	3.0	(0.5)	1.8	(0.4)	2,1	(0.5)	3.4	(0.5)	1.0	(0.3)	10.1	(0.9)	51.3	0.1
	Nomer	84.7	(1-2)	4.6	82-77	2.2	(0.4)	07	(0.3)	2.5	10.53	1.2	12.40	0.5	(0.2)	3.6	(0.5)	30.6	(43
	Poland	85.4	(7.1)	36	40.53	2.6	(0.5)	0,9	40.33	1.7	(0.3)	1.0	40-20	0.9	(0.30	3.8	60,61	37.4	(4,0
	Portugal	688	(1-1)	-23	(0:3)	35	(0.5)	-05	(0.2)	1.7	(0.4)	0.4	(0.5)	0.9	(0.2)	1.6	(0.5)	29.6	(S.2
	Slovak Republic	86.1	(1.2)	1.3	(0.5)	5.8	(0.8)	0.7	60,39	1.9	00.69	0.4	(0.2)	1.0	(0.4)	2.8	(0.5)	44.2	(49
	Slovenia	83.5	(9.9)	0.8	(0.3)	4.2	(0.7)	2.0	(0.4)	1.1	(0.4)	0.4	(0.3)	3.0	(0.7)	5.0	(0.7)	68.6	17.4
	Spain	91.6	(0.5)	1.4	(0.2)	2.9	(0.3)	07	(0.1)	12	(0.2)	0,5	(0.1)	0.5	(0.1)	1.2	(0.2)	28-9	(3.9)
	Sweden	82.9	(1.3)	44	(0.7)	3.7	(0.0)	0.7	(0.2)	2.1	(0.4)	1.1	(0.3)	1.0	(0.4)	4.6	(0.7)	37.9	[6.7]
	Switzerland	76.3	(1.6)	2.2	(0.5)	9.1	(0.5)	0.8	(0.3)	3.0	(0.6)	0.6	40.29	2.5	(0.5)	5.5	(0.9)	49.2	(5.8)
	Turkey	93.8	(1-2)	1.2	60:40	2.8	60.70	0.2	(0.1)	6.9	(0.40	01	40.1)	0.2	(0.1)	0.8	(0.3)	27.9	(8-6)
	United Kingdom	862	(1.0)	2.1	(0.3)	1.3	(0.3)	2.4	(0.4)	07	(0.2)	2.3	(0.4)	1.1	(0.3)	4.0	(0.6)	43.8	(4.7
	United States	86.0	(1.3)	3.5	(0.7)	1.4	(0.4)	6.6	(0.2)	1.3	(0.4)	1.9	(0.5)	0.3	(0.2)	4.9	(0.9)	41.6	15-5
	OCCD total	85.3	(0.4)	28	00.72	3.7	(0.2)	09	10:17	1.5	(0.1)	1.3	(0.2).	0.9	(D.1)	4.3	(0.3)	434	(1.9)
	OECD average	84.4	0.25	2.8	(0,5)	3.4	39.13	1.0	8332	0	0.1	3,1	(0,3)	33%	43.1)	4.5	(0.3)	10,2	10.85
	Albania	29.4	40L33	0.3	(0.29	0.2	(0.2)	0.0	E	0.0	ED 63	- CLO		Q.D	c	0.0	c	0.0	
i	Argentina	98.3	(0.4)	0.8	(0.2)	0.2	(0.1)	0.2	(E) T)	0.1	10.11	0.0	c	0.1	(0.1)	0.2	(0.2)	17.2	(15.9
TABLESO S	Azerbaijan	98.8	40.40	0.0		7,1	63.49	0-0	0	0.0	6	0.0	c	0.0	0	0.0	c	0.0	
	Brazil	98.2	(0.3)	1.1	(0.2)	0.1	(0.1)	0.1	(0.1)	0.1	(D1)	0.1	(0.1)	0.0	(0.0)	0.2	(0.1)	12.5	(5.5
	Bulgaria	93.5	(1.3)	1.9	(0.5)	1.3	(0.6)	07	(0.2)	0.7	(0.3)	0.6	(0.2)	0.6	(0.2)	1.1	(0.3)	25,3	(64
	Colombia	99.4	(0-2)	0.5	(0-2)	0.0	c	0.0	c	0.0	c	0.1	(D.1)	0.0	c	0.0	c	0.0	
	Creatia	92,4	(1.0)	23	10.50	10	(0.3)	0.8	(0.3)	0.5	(0.3)	0.8	(0.3)	0.6	(0.3)	1.5	(0.4)	30.0	05.3
	Dubii (UAE)	90.1	(0.6)	2.2	(0.4)	1.2	(0.4)	13	(0.3)	0.7	(0.3)	1.5	(0.4)	0.7	(0.3)	2.3	(0.4)	33.9	(7.5
	Hong Kong-China	69.2	(1.6)	2.2	(0.4)	10.0	(1.0)	0.9	(0.3)	3.9	(0.6)	0.6	(0.2)	3.5	(0.6)	9.7	(0.9)	59-2	(6.3
	Indonesia	99.9	(0.1)	0.0		0.0	c	0.0	c	0.0		0.0		0.0	c	0.0	c	0.0	
	jordan	99.0	(0.4)	0,2	(0.2)	0.1	(0.1)	0.4	(0.2)	0.0	¢	0.1	(0.1)	0.1	(0.1)	0.0	(0.0)	7.7	(9.1
	Kazakhstan	98.6	(0.5)	0.2	(0.1)	0.8	(0.4)	01	(0.1)	0.1	(0.1)	0.0		0.0	0	0.1	(0.1)	22-3	(13.5
	Kyrgyzstan	99.8	(0.7)	0.2	(0.1)	0.0	c	00	c	0.0	0	0.0	C	0.0	c	0.0	c	0.0	
	Latvia	92.3	(0.9)	1.9	80.40	2.3	(0.5)	0.6	(0.4)	1.0	(0.3)	0.4	(0.1)	0.5	(0.2)	1.1	(0.3)	24-8	[6.3
	Liechtenstein	83.9	(3.3)	0.0	c	5.9	(2.1)	0.0	ε	1.6	(1.4)	0.0	c	2.5	(1.5)	42	(1.5)	66.4	(22.5
	Lithuania	90.3	(8.60	1.0	(0.3)	2.6	(0.6)	1.3	(0.3)	0.9	(0.4)	0.6	(0.2)	0.9	(0.3)	2.5	(0.5)	49.4	(7.3
	Macao-China	83.6	(0.6)	0.9	(0.2)	9.8	(0.7)	0.8	(0.2)	1.3	(0.4)	0.2	(0.1)	18	(0.3)	1.7	(0.3)	41.5	(6-8
	Montenegro	98.7	(9-3)	0.6	(0.2)	6.3	(0.2)	0.0	c	0.2	(0.1)	0.1	(0.1)	0.0	ε	0.1	(0.1)	9.6	(81.8
	Panama	99 0	(0.4)	0.7	(0.3)	0.0	c	0.0	(0.0)	00	c	00	c	0.0	c	01	(0.1)	11.8	(13-0
	Peru	99.4	(0.2)	6.3	(0.2)	6.2	(0.1)	0.0	c	0.1	(0.1)	0.0	c	0.0	C	0.0	c	0.0	
	Qutar	973	(0.3)	0.8	(0.2)	0.3	(0.1)	0,2	(0.1)	0.4	(0.1)	04	(0.1)	0.0	c	0.5	(0.1)	23.0	(5.1
	Romania	28.3	(0.5)	0.7	(12.3)	0.5	(0.4)	6.0	c	0.2	(0.1)	01	(01)	0.0	c	0.2	(0.1)	17.1	(7.8
	Russian Federation	91.7	(1 0)	1.4	(0.4)	1.8	(0.5)	12	(0.3)	0.8	(0.3)	07	(0.3)	0.7	(0.3)	1.6	(0.4)	35 3	(6.7
	Serbia	97.0	(0.6)	0.5	(0.2)	1.4	(0.5)	0.2	(0.1)	0.3	(0.1)	0.0	c	0.3	(0.1)	0.3	(0.1)	24.8	(8.4
	Shanghai-China	47.6	(7.5)	1.0	(0.2)	214	(12)	0.5	(0.2)	7.0	(0.9)	0.3	(0.1)	4.5	(D-6)	17.4	(1.2)	47.6	(3.2
	Singapore	63-2	(0.5)	1.2	(0.3)	12.6	(0.8)	1.0	(0.2)	40	(D5)	0.6	(0.1)	3.9	(0.4)	13.8	(0.7)	71.3	(2:
	Chinese Tripei	73.2	(2.1)	0,3	(0.2)	163	(1.4)	03	(0.1)	1.9	(0.4)	0.1	(0.1)	3.0	(0.6)	4.9	(1.2)	67.7	(5 !
	Thailand	98-5	(0-5)	0.0	10-0)	0.6	(0.3)	0.2	(0.1)	0.1	(0.1)	0.1	(0.1)	0.2	(0-2)	0.2	(0.2)	609	{20 €
	Trinidad and Tobago	94.3	(0.5)	1.9	(0.4)	1.1	(0.2)	0.5	(D Z)	0,6	(0.2)	0.5	[0.2]	0.3	(0.1)	0.6	(0.3)	16.8	(6.6
	Tueisia	59.6	(0.2)	0.2	(0.1)	0.0		0.0		90		0.0	0	0.0	c	0.0	c	0.0	
	Uruguay	96.4	40.51	12	40.30	08	(0.2)	0.4	(0.2)	0.4	40.29	0.3	(0.1)	0.2	(0.1)	0.4	(0.2)	169	(6)

Statistick Carps http



ANNEX B2

RESULTS FOR REGIONS WITHIN COUNTRIES

[Part 1/1]

								Proficie	ncy leve	b						
	des 26	Level 1b than 2.04 points)	to le	el 18 262.04 n than 4.75 points)	(from to le 40	el 1a 334.75 is than 7.47 points)	(from to let	vel 2 407.47 is than 0.18 points)	(from	vel 3 480.18 ss than 2.89 points)	(from	vel 4 552.89 in than 5.61 points)	from to les	ed 5 625.61 is than 8.32 points)	{above	vel 6 : 698.32 points)
	%	S.E.	%	3.2	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
Adjudicated																
Belgsum (Flemsh Community)	0.4	(0.1)	2.7	(0.4)	103	(D 8)	20,1	(0.5)	27.2	(1.1)	265	(1.0)	11.3	(0.7)	1.2	(0.3)
Spain (Andalusa)	2.3	(0.7)	6,5	(1.1)	16.9	(1.4)	29.1	(2.5)	31.1	(2.4)	12.1	(1.4)	1.7	(0.5)	0.0	E
Spain (Aragon)	0.7	(0.3)	3,4	(0.4)	11,1	(7.3)	248	(1,5)	33.9	(1,6)	21/3	(1.3)	4,5	(0.8)	0,3	(0.2)
Spain (Asturias)	1.3	(0.4)	5.0	(0.9)	11.9	(1.2)	24.4	(1.8)	30.6	(1.3)	21.1	(1.9)	5.4	(0.50	0.3	(0.2)
Spain (Balearic Islands)	2.6	(0.6)	7.3	(1.0)	17.6	(1.59	298	(1.5)	27.6	(1,7)	13.1	(1.8)	1,7	(0.7)	0.0	E
Spon Basque Country)	0.7	(0.2)	3.4	(0.5)	11.1	(0.4)	25.5	(0.9)	36.6	(0.8)	20.4	(0.9)	4.2	(0.5)	0.3	(0.1)
Spain (Canary Islands)	2.4	(0.6)	5.5	(7.2)	22.0	(2.7)	28.3	(1.7)	26.1	(1.5)	10.7	(0.9)	18	(0.5)	0.0	0
Spain (Cantabra)	97	(0.3)	4.7	(0.7)	12.5	(1.2)	25.9	(1.5)	32.3	(2.0)	19.2	(1.8)	4.4	(0-0)	0.3	(0.2)
Spain (Castile and Leon)	0.6	(0.3)	3.2	(D.9)	9,4	(1.4)	22.9	(1.5)	352	(1.8)	22.6	(1.6)	59	(1.1)	0.2	(0.2)
Spain (Catalonia)	0.7	(0.3)	3.4	(0.8)	9.4	(1.3)	24.5	(1.8)	35.3	(1.8)	23.D	(2.0)	3.6	(0.7)	0.0	c
Spain (Ceuta and Mehilla)	7.3	(0.8)	17,3	(1.6)	23.4	(5.5)	26.1	(1.5)	190	(1.5)	7.7	(0.6)	12	(0.49	0.0	0
Spain (Galicia)	1.1	(0.3)	4.5	(0.7)	12.6	(3.40	25.7	(2.3)	32.8	(1.5)	19.5	(1.4)	3.6	(0.6)	0.0	
Span (La Riosa)	0.9	60.40	4.1	40.7)	12.1	(1,1)	21.9	(1,2)	31,4	(1,6)	23.5	0.49	5.6	(0.50	0.4	49.23
Spaln (Madrid)	0.6	(0.3)	2.4	49-80	10.1	(1,3)	23.1	(1,7)	34.6	(1.2)	23.3	(1.7)	5.6	(1.1)	0.3	49.30
Spain (Murcia)	0.5	(0.3)	3-3	49.73	15.2	(1.5)	287	(1,8)	33.6	(2.3)	15.9	(1.6)	2.4	(0.6)	0.0	c
Spain (Navarre)	0.5	(0.2)	2.9	(0.6)	11.5	(8.7)	24.9	(1.5)	33.4	(1.9)	21.9	(1.4)	4.6	(0.9)	0.4	(0.2)
United Kingdom (Scotland)	0.8	(0.3)	3,4	(0.6)	12.0	(0.5)	24.9	(1.0)	292	(0.9)	20.4	(L1)	8.0	(0.9)	1.2	(0.3)
Non-adjudicated	-						-	-					-			
Belgism (French Community)	2.2	(0.5)	7.2	\$0.99	13.9	(1.00	20.5	(0.49)	24.1	0.40	22.5	(1.1)	8.6	(0.8)	1,0	10.20
Belgium (German-Speaking Community)	0.7	(9.3)	3.2	(0.0)	13.0	(1,0)	23.7	(1.7)	29.2	(2.1)	23.6	(1.7)	6.0	(1.0)	0.5	(0.3)
Finland (Finnish Speaking)	0.2	(0.1)	1.5	(0.2)	6.1	42.5)	16.3	(0.7)	301	(0.9)	30.9	(0.9)	13.2	(0.6)	1.7	(0.30
Finland (Swedish Speaking)	0.4	(0.2)	1.9	10.50	10.1	40.59	23.3	(1.3)	30.4	(1-7)	25.6	(1-6)	7.6	0.60	0.7	(0.4)
Italy (Provincia Abruzzo)	1,2	(0.7)	5.0	40.80	14.7	(1,4)	26.9	(1.9)	29.5	(1.2)	19.2	(1.2)	3.4	(0.6)	0.1	(9.1)
Italy (Provincia Autonoma di Bolgano)	1.3	(0.7)	4.7	(7.7)	12.0	(1.2)	25.3	(1.3)	30.8	(1.8)	29.2	(1.3)	5.3	(0.6)	0.4	19.30
Italy (Provincia Basilicata)	0.5	(0,3)	5.3	(1.2)	163	(1,5)	27.7	(1.8)	29.4	(1.6)	156	(1-3)	3.0	(0.5)	0.0	0
Italy (Provincia Calabria)	18	(0.6)	9.8	(1.60	21.4	(3.4)	29.2	(2.2)	25.3	(1-7)	11.1	0.49	14	(0.4)	0.0	c
Italy (Provincia Campanie)	2.7	(1,3)	7.7	(1.2)	21.1	(1.7)	29,0	(2.2)	25.8	(2.1)	11.7	(1.9)	17	(0.5)	0.2	40.1)
Italy (Provincia Emilia Romagna)	13	(0.6)	4.6	41.09	11.7	(8.1)	21.1	(1.7)	26.8	(2.2)	25.5	(2.0)	83	(0.5)	0.7	40-30
Italy (Provincia Friuli Venezia Ciulia)	1.0	(0.5)	2.9	(0.7)	9.5	(1.3)	19.7	(1,6)	30.5	(1.9)	26.4	(1.9)	9.2	(1.2)	0.8	40.40
Baly (Provencia Lazio)	0.7	(0.3)	5.5	(1.0)	15.6	(1.5)	263	(3.6)	28.1	0.0	193	(1.2)	4.4	(0.9)	0.1	(0.1)
Buly (Provencia Liaurea)	1.5	(1.1)	4.8	(1,2)	12.0	(1.50	22.9	(1.8)	31.8	(2.4)	20.8	(2.0)	5.9	(1.0)	0.3	(0.2)
Italy (Provincia Lombardia)	0.4	(0.2)	2.7	10.80	8.5	(8.30	17.9	(1.7)	31.5	(2.1)	28.1	(2.0)	9.8	(1.5)	1.1	10.40
Hally (Provincia Marche)	0.6	(0.5)	45	(1.4)	12.4	(2.25	22.5	(1.8)	29.4	(2.4)	23.3	(1.8)	6.9	(1.0)	0.5	(0.3)
Italy (Provincia Molise)	0.9	(0.4)	5.7	49.73	16.2	(3.4)	28.7	(2.0)	31.3	(1.5)	153	(1.3)	19	(0.7)	0.0	C
Italy (Provincia Piemonte)	0.8	(0.4)	43	(1.2)	13.6	(2.4)	22.2	(1.8)	29.1	(1.9)	22.6	(1.2)	7.0	0.0	0.5	(0.2)
Italy (Province Puglis)	0.7	(0.5)	3.9	40.50	12.9	(3-4)	260	(1.5)	31-8	(1-8)	20.5	(1-7)	3.9	(0.6)	0.3	10.20
Italy (Provincia Sardegna)	1.9	(0.6)	5.9	40.91	16.8	(1.5)	29.4	(1,7)	26.5	(1,7)	164	(1.4)	3.1	(0.8)	0.2	(0.1)
taly (Provincia Sicila)	3.9	(1-6)	8.1	(1-6)	19.4	(2.6)	26.4	(2-3)	26.1	(2.6)	13.4	(1-6)	2.6	(0.0)	0.1	(0.1)
Billy (Provencia Toscana)	1.2	(0.40	4.9	(1.0)	13.5	(1.6)	22.3	(1.5)	28.3	(1.5)	23.4	0.40	5.9	(0.8)	0.4	40.33
tuly (Provencia lisure)	0.7	(0.4)	3.3	10.77	10.6	(8.2)	21.8	(1.5)	29.6	(1.8)	24.6	(1.7)	8.7	(1-2)	0.7	(0.3)
Haly (Provencia Umbrai)	1.6	(0.6)	5.4	(1.1)	13.4	(1.5)	22.1	(1.2)	28.6	(1.8)	22.0	(1.6)	6.5	(0.50	0.7	(0.3)
Balv (Provincia Unifie (Zvosta)	0.3	(0.2)	2.3	(0.5)	8.8	(8.3)	22.0	(1.4)	31.4	(1.8)	25.9	(1.8)	8.5	(0.9)	0.8	(0.5)
Buly (Provencia Viriale)	0.7	(0.2)	3.5	(1-0)	103	(1.5)	21.5	(1.7)	32.3	(1.9)	24.2	(1.6)	6.7	(1 p)	0.0	(0.5)
Linited Kingdom (England)	1.0	(0.2)	4.1	(0.4)	13.3	(0.8)	247	(0.2)	289	(1.0)	19.9	(0.5)	71	(0.6)	1.0	(0.2)
United Kingdom (Northam Instand)	0.9	(0.5)	3.9	(0.5)	12.7	(1.1)	238	(1.3)	27.8	(1.5)	21.6	(1.2)	7.0	(0.0)	14	(0.2)
United Kinglem (Wales)	1.4	(0.5)	5.4	10.6)	16.3	40.19	280	(1.2)	28.2	(1-3)	15.8	(1.0)	4.6	(0.5)	0.6	(0.3)

Note: See Table 1.2.1 for national data Seattink @gp http://dx.doi.org/10.1787/888832343304



[Part 1/2]

Table S.L.b		entage				pr						,	, ,	,		
	_		_		_			ys – Proé	-		_		_		_	
	(fee	Level 15 than 2.64	(from to let	el 16 262,64 is thus 6,75	(from to le	el 12 124.73 in thus 17.47	(from to le	vel 2 467,47 ss than 0.18	(from	vel 3 460.16 vs than 2.89	from to le	vel 4 :552.89 sv than 5.61	from to le	vel 5 625.61 w than 8.32	(above	vel 5 658.3
	5	points)	NAME OF	points) S.E.	NIEC.	points) S.E.	NO.	points) S.E.	5	points) S.E.	%	points) S.E.	%	points)	N. COL	points!
Adjudicated	- 2	NI.	-	XI.		S.L.	- 2	M.	- 24	S.L.	- 24	S.L.	76	XI.	1.75	S.L.
Beldium Flomish Community)	0.5	(0.2)	2.5	(0.5)	12.6	(1.0)	22.6	(1.2)	26.4	(1.2)	24.0	(1.2)	9.3	(0.5)	0.8	80.40
Scan (Andalous)	2.9	11.0	4.1	12.0	20.2	(2.1)	25.0	(2.9)	28.6	(2.7)	10.7	(1.5)	1.6	(0.6)	9.0	DATE:
Soan (Assess)	3.1	(0.5)	3.6	17.00	13.3	(1.5)	27.4	(2,0)	32.4	(2.3)	163	(1.8)	3.1	(0.8)	0.0	0
South (Assurins)	2.0	(0.7)	6.1	(1.3)	15.1	(1.4)	24.5	(2.1)	29.6	(1.9)	17.8	(2.5)	6.0	(1.1)	0.0	
Souin (Baleuric Islands)	3.8	(1.0)	10.1	(7.5)	19.3	(2.1)	32.1	(2.4)	24.0	62.40	9.6	(1.5)	1.0	(0.4)	0.0	
Scuin (Bargar Country)	1.1	(0.4)	5.2	10.50	15.1	(LC)	22.8	(1.3)	30.9	(1.3)	16.9	(1.1)	2.9	ID.51	0.2	(0.1)
Spain (Canary Name)	3.0	(0.9)	10.2	(1.2)	26.7	(2.1)	28.0	(2.2)	22.7	(2.1)	2.1	(1.2)	1.5	(0.5)	0.0	[ILI]
Soun (Cartabas)	1.2	(0.5)	7.0	(1.3)	14.0	(2.1)	27.4	(1.8)	29.9	(2.5)	15.4	(1.9)	2.8	(0.7)	0.3	(0.3)
Scalin (Castiliz and Leon)	0.7	10.41	5.0	(1.49)	12.4	(3.50	25.7	(2.1)	33.0	(2.8)	18.4	(2.3)	4.6	(1.2)	0.0	E
South Catalona's	1.0	10.41	5.1	ti.n	11.4	(1.4)	27.0	(2.1)	34.2	(2.6)	16.7	(2.3)	2.5	(0.9)	0.0	-
Scalp Couts and Mehilat	9.9	(3.2)	20.6	(2.1)	23.3	(2.7)	23.3	0.3	76.6	(1.4)	6.4	(1.1)	1.1	(a.m	0.0	
Scain (Calicia)	1.9	(0.6)	4.7	(1.2)	14.9	(7.00	76.0	(2.0)	10.1	(2.5)	15.8	(1.5)	2.6	60.50	0.0	c
Soun La Roisi	1.5	(0.8)	5.6	47.13	15.2	(3.50	24.8	(2.7)	29.0	(2.2)	19.8	(2.0)	4.0	(0.5)	0.0	
Spain (Madrid)	1.0	(CLA)	3.4	(1.3)	14.2	(1.2)	26.5	(2.5)	33.0	(3.4)	18.9	(2.2)	4.0	(1.1)	0.0	
Span (Murca)	9.6	10.40	4.0	40.90	17.4	(2.5)	30.5	(2.5)	32.6	(2.7)	13.5	(1.7)	1.5	(3.6)	0.0	0
Spain (Navarre)	0.6	(0.3)	4.2	(3.3)	16.1	(3.4)	26.3	(2.0)	32.2	(2.1)	17.6	0.50	2.8	(0.50	0.0	
United Kingdom (Scotland)	1.2	(0.4)	4.7	(0.8)	14.9	(1.3)	26.1	(1.4)	27.1	(LZ)	17.7	(1.2)	7.2	(1.3)	1.1	10.40
Non-adjudicated			_													
Religion (French Community)	3.1	89.73	2.2	(1.4)	150	(3.4)	21.2	(1.5)	22.5	(1.3)	20.4	(1.8)	7.9	Date	0.8	(0.4)
Belgrum (Cerman-Spenking Community)	1.0	(0.5)	5.0	(1.40	18.4	(3.30	24.8	(2.2)	22.2	(2.9)	19.0	(2.8)	4.1	(1.2)	0,0	
Finland (Finnish Speaking)	9.3	(0.1)	2.5	10.49	3.8	53.89	22.2	(3.1)	32.6	0.49	25.2	(1.30	7.8	(0.9)	0.6	60.23
Finland (Swedish Speaking)	9.8	60.40	3.3	10.50	15.5	(2.0)	29.1	(2.2)	27.9	(2.4)	19.3	(2.3)	3.9	(0.9)	0.0	0
Italy (Provencia Abruzzo)	1.4	(0.9)	7.5	(1.4)	19.9	(2.2)	29.5	(2.2)	26.8	(2.1)	12.9	(1.9)	1.9	(0.8)	9.1	(0.1)
Italy (Provincia Autonoma di Bolgano)	1.9	(3.1)	6.5	(1.6)	17.0	(2.0)	28.3	(2.4)	26.5	(2.5)	16.1	(1.2)	3.6	10.00	0.0	
Italy (Provincia Basilicata)	0.9	(0.6)	7.2	(1.3)	23.5	(3.5)	29.9	(2.6)	24.9	(2.0)	10.6	(1.6)	2.0	(0.7)	0.0	C
Italy (Provincia Calabra)	3.1	(1.0)	15.5	12.90	27.1	(2.1)	27.0	(2.5)	19.1	(2.2)	7.2	0.49	1.0	(0.6)	0.0	
Italy (Provincia Campania)	4.3	(1.8)	10.7	(1.7)	27.0	(2.5)	25.8	(2.4)	19.4	(2.4)	8.1	(2.0)	1.3	(0.7)	0.0	0
Haly (Provincia Emilia Romagna)	1.6	(0.8)	5.0	(1.3)	13.9	(3.6)	24.0	(2.3)	25.5	(2-1)	22.6	(2.0)	5.8	0.0	0.4	(0.2)
Italy (Provincia Friul) Venezia Giulia)	1.5	(8.0)	5.3	43.5	14.2	(3.7)	23.8	(2.5)	28.5	(2.2)	28.2	(2.4)	6.0	(I.1)	0.2	(0.2)
Italy (Provincia Lazio)	1.1	(0.5)	7.9	0.0	20.7	(2.3)	28.6	(2.4)	23.9	(2.4)	14.7	0.91	3.1	(0.9)	0.0	
Italy (Provincia Liguria)	2.7	(2.1)	7,0	(2.2)	16.5	(2.80	26.1	(3.1)	27,4	(3,4)	15.9	(2.8)	6.1	II.30	0.0	0
Italy (Provincia Lombardia)	0.2	40.30	3.9	0.40	11.5	(3.5)	22.2	(2.4)	31.2	(2.4)	23.5	(2.5)	6.4	0.51	0.6	60.30
Italy (Provencia Marche)	0.8	10.70	5.8	(2.2)	15.8	(3.8)	27.7	(2.5)	27.5	(3.7)	17.9	(2.5)	4.3	DLB)	0.0	C
Italy (Provincia Molise)	3.4	0.60	8.9	(3.2)	21.8	(2.00	30.9	(2.2)	23.4	(2.2)	11.2	0.80	1.9	m.m	0.0	
Italy (Provincia Piemontei	1.2	80.20	6.1	(13.5)	16.5	(3.2)	23.3	(2.5)	27.6	(2.3)	19.8	(2.1)	5.0	n.n	0.4	(0.3)
Italy (Provincia Paglia)	1.4	(0.9)	6.5	0.40	16.1	(2.4)	28.9	(2.5)	27.0	(2.5)	15.6	(2.3)	2.3	(0.2)	0.0	- 0
Italy (Provincia Sardegna)	3.2	(1.2)	9.0	(1.6)	21.5	(2.1)	32.2	(8.1)	19.6	(2.5)	12.0	(1.5)	1.8	(0.7)	0.0	C
Italy (Provincia Sicilia)	6.3	(2.4)	12.1	(2.5)	24.4	(3.2)	23.7	3.0	28.6	aa	10.3	(1.6)	2.4	(0.8)	0.0	
Italy (Provincia Toscana)	1.8	(0.6)	Z.1	(1.5)	18.1	(2.2)	25.9	(2.3)	26.3	(2.0)	17.2	(2.2)	4.3	(1.1)	0.0	c
Italy (Provincia Tiento)	1.2	(0.7)	4.9	(3.3)	143	(3.5)	25.5	(1.8)	28.0	(2.1)	18.5	(2.4)	6.9	(1.3)	0.2	10.40
Italy (Provencia Umbraz)	2.8	(1.1)	8.4	(2.0)	17.2	2.0	23.5	(2.6)	25.6	(2.5)	18.1	(2.2)	4.1	(1.0)	0.0	c
Italy (Provincia Valle d'Aosta)	0.3	(0.40	4.0	(1.0)	9.7	(3.6)	23.7	(2.0)	31.3	(2.3)	22.9	(2.5)	8.0	(3.30	0.6	(0.5)
Italy (Provincia Veneto)	1.3	(0.7)	5.4	(1.8)	15.2	(2.8)	24.6	(2.6)	29.9	GB	18.8	(2.4)	3.6	10.50	0.0	c
United Kinadom England)	1.4	80.40	5.6	10.6)	15.9	0.20	25.7	CL40	27.2	0.0	17.3	0.40	6.0	m.au	0.9	(0.3)
United Kingdom (Northern Indiand)	1.5	(1.1)	5.6	17.30	16.1	(7.8)	24.7	(3.8)	24.7	(2.2)	19.2	0.0	2.1	(0.9)	1.1	(0.4)
United Kingdom (Wales)	7.2	(0.5)	7.4	80.50	18.9	43.30	22.8	(3.5)	25.7	0.50	116	0.0	3.8	mai	0.5	(0.3)

Note See Table 1.7.2 for national data. Search lask @ 500 https://doi.org/10.1787/9888922423000



[Part 2/2]

							Gir	ds – Papil	iciency l	levels						
	(fee	Level 18 than 2.04 points	(from to lo	el 15 262.04 n thun 4.75 points)	to le	el 1a 334.75 s thus 7.47 points)	from to le	vel 2 467.47 is then 8.18 points	from to lo	vel 3 480.18 in then 2.89 points)	from to les	vel 6 552.89 is than 5.61 points)	(from to les	vel 5 621.61 to thus 6.32 points)	Ghorn	vel 6 : 698.32 points)
	2	S.E.	2	3.2	5	3.2	%	S.L.	%	S.L.	76	S.L.	75	5.1.	25	5.0.
Adjudicated																
Belgism (Flemwh Community)	0.1	(0.1)	1.6	(0.5)	7.2	(31,60)	32.5	(1.2)	28.1	(1.4)	29.B	(1.4)	13.5	(LI)	1.5	(0.4)
Sport (Andalasta)	1.5	(0.7)	3.5	(1.3)	11.2	0.20	10.1	(2.9)	36.0	(2.9)	11.7	(1.9)	2.8	(0.7)	0.0	c
Spann (Anagon)	0.0		2.1	(0.4)	8.3	01-22	22.2	(1.3)	35.5	(2.2)	25.9	(2.3)	6.0	(1.1)	0.3	80.33
Spoin (Adjusted)	0.6	(0.5)	3.8	(1.40)	8.5	(1,2)	23.8	(2.6)	31.7	(2.0)	24.8	(2.2)	6.5	(1.4)	0.3	(0.3)
Spen (Balanic Mands)	1.4	(0.6)	5.6	(3.30)	16.3	(2.2)	27.5	(2.7)	31.3	(2.2)	16.6	(3.1)	2.3	[1,3)	0.0	c
Sport (Bosque Country)	0.2	(0.1)	1.5	(0.4)	6.8	(0.10)	23,0	(1.4)	38.5	(1.3)	24.0	(1.2)	5.5	(0.7)	0.4	(0.2)
Spain (Carary Manda)	1.7	(0.0)	0.5	(5.7)	18.2	(2.0)	75.6	(2.0)	22.2	(2.4)	12.5	01.30	2.0	(0.8)	0.0	
Sport (Cartabra)	9.3	80.20	2.3	(0.40)	8.2	(1.5)	24.3	(2.2)	34.8	(2.2)	23.0	(2.6)	6.0	(3.3)	0.4	(0.2)
Spain (Caville and Leon)	9.4	(0.3)	1.3	(0.7)	6.5	(1.7)	20.1	(2.0)	37.3	(2.0)	26.7	(2.3)	7.2	0.60	0.0	6
Spain (Catalona)	0.4	(0.3)	1.4	10.50	2.1	(1.4)	21.9	(2.4)	36.4	0.0	27.5	(2.9)	4.7	11.00	0.0	
Spatn (Couts and Mebilis)	4.2	80.90	14.1	(3.80	24.9	(1,30	25.8	(2.2)	21.2	(2.2)	6.2	D.30	1.2	19.70	0.0	
Spain (Calicia)	0.4	10.33	2.3	89.20	8.7	0.49	25.3	(1.39	35.5	(1.6)	23.4	(1.50	4.3	0.0	0.0	
Spen (La Rices)	9.4	80.20	2.5	60.30	8.2	0.49	18.8	(2.2)	34.0	(2.3)	27.6	(2.3)	Za	11.50	Q.Z	49.49
Spain (Madrid)	0.2	10.21	1.3	40.40	6.0	0.49	19.7	(2.0)	37.4	(2.6)		0.0	7.2	0.50	0.0	
Span (Murco)	0.5	(0,4)	2.7	(7.40	13.1	(2.3)	27.0	(2.0)	35.1	(2.6)	18.2	(2.0)	3.3	11.00	0.0	0
Spain (Navorre)	0.3	89,30	1.4	60,60	6.4	(1.25	23.4	(2.3)	34.2	(2.8)	26.2	(2.2)	6.5	17.40	0.6	80.40
United Kingdom (Scotland)	0.5	(0.2)	2.2	(0.6)	9.2	(1.0)	23.6	(1.3)	31.4	0.49	23.2	(1.5)	8.5	0.40	1.2	(0.4)
Non-adjudicated																
Belgum (French Community)	1.2	(0.5)	5.2	(1.12	12.7	(1.30)	19.8	(1,30)	25.6	(1.2)	24.7	(1.5)	9.3	10.90	1.3	(0.4)
Belgum (German-Speaking Community)	9.3	10.30	1.3	80.20	7.5	(1,3)	22.7	0.49	30.8	(2.6)	28.5	(2.4)	4.0	11.60	0.2	10.60
Finland (Finneh Speaking)	9.1	80.10	9.5	(02.2)	2.5	(0,4)	10.2	(0,5)	27.5	(1.2)	3Z.Z	(1.2)	18.Z	(1.1)	2.6	89,50
Finland (Swedish Speaking)	0.0	- 6	0.5	89.40	4.2	(1.2)	12.2	CL49	32.9	(2.3)	31.2	(2.1)	11.1	(3.30	1.2	89,70
Italy (Provences Abruzzo)	1.0	83.23	2.3	(1.0)	9.0	(1,3)	23.9	(2.6)	32.5	(2.4)	26.1	(2.9)	5.1	0.0	0.0	c
Italy (Provencia Autonoma di Bolgano)	9.7	10.50	2.9	(1,1)	6.3	(1,2)	22.3	CLSS	35.1	(2.2)	26.3	(1.9)	Z.1	10.90	0.7	(0.4)
Italy (Provincia Basilicate)	0.0	c	2.5	50.95	12.6	(1,2)	25.3	(2.3)	35.5	(2.2)	21.0	(2.0)	4.2	(0.50	0,0	
Italy (Provincia Calabra)	0.6	10.50	3.9	(7.1)	15.6	(Z.1)	31.4	(2.9)	31.7	(2.3)	15.0	(2.4)	1.8	10.20	0.0	
Italy (Provincia Campania)	0.8	10.73	3.8	(1,2)	13.4	(2,60	29.2	(2.3)	34.2	(3.1)	16.1	(2.9)	2.3	10.20	9.2	10.20
Italy (Provences Errolia Romagna)	0.9	10.50	4.2	(1.0)	9.2	(1.9)	18.4	(2.2)	27.0	(2.9)	28.3	(3.2)	10.6	0.70	1.0	10.50
Italy (Provincia Fruit) Veneza Giulia)	0.4	(0.4)	0.4	(0,5)	5.6	(1.5)	15.3	(3,3)	32.6	(3.0)	33.1	(2.9)	12.3	(2.0)	1.3	30,70
Italy (Provincia Lazio)	0.0	c	2.7	(1.6)	9.6	(2.2)	23.6	(2.5)	33.0	(2.4)	24.8	(2.2)	6.0	0.60	0.0	0
Italy (Province Liquis)	0.0	c	2.2	(1.0)	6.9	0.49	19.1	(2.3)	36.9	(2.8)	26.4	(2.1)	8.0	מגם	0.5	80.33
Italy (Province Lombardie)	0.0	c	1.4	00.60	5.2	(1,2)	13.1	(2.5)	31.9	(3.0)	33.1	(3.3)	13.6	12.20	1.6	80.60
Taly (Provence Marchet	0.0	6	3.0	(3.3)	8.2	(1.6)	161	(2.2)	31.6	0.6	29.8	(2:4)	9.9	(1.7)	0.9	30,60
Baly (Provincia Molise)	0.3	80.30	2.3	80.25	10.3	(1.6)	26.4	CLU	39.7	0.49	19.0	(2.2)	2.0	11.20	0.0	0
Bahr (Provencia Premonte)	0.4	(0.4)	2.7	(1,2)	10.9	(2.4)	21.1	(2.4)	30.6	(2.8)	24.9	(2.1)	8.3	II.40	0.6	40.30
Italy (Provinces Pagisa)	0.0	C	1.5	00.63	2.9	0.46	23.3	(2.3)	36.5	(2.1)	25.1	(2.1)	5.4	11.30	0.4	10.40
Bahr (Provincia Sardegra)	0.0	c	2.9	80.50	12.3	02.60	26.7	(2.6)	32.9	(2.8)	20.6	(2.6)	4.3	11.20	0.3	(0.2)
Taly (Frontes Solie)	1.5	17.09	4.2	(1.6)	14.6	0.5	29.0	(2.2)	31.4	B-9	16.3	(2.6)	2.8	(1.0)	0.0	SLED
Italy (Provincia Toscana)	0.5	40.40	2.5	(1.2)	8.3	(1.3)	19.5	(L9)	30.5	12.80	30.2	(2.6)	7.8	11.5)	0.6	60.4)
Italy (Provincia Trento)	0.0	8430	1.5	40.85	6.5	(1.3)	17.7	(2.5)	31.4	(2.7)	31.3	(2.5)	10.7	11.50	0.7	10.40
taly (Province Umbra)	0.5	40.10	2.6	60.50	9.7	(1.6)	20.8	(2.3)	31.6	(2.7)	25.6	(2.1)	8.9	11.5)	0.4	40.33
Italy (Provincia Valle d'Aosta)	0.0	0770	9.7	40.60	8.0	(1.5)	20.5	0.0	31.4	(2.5)	28.8	(2.1)	9.1	II.6)	0.9	10.60
Italy (Provincia Vaneto)	0.0		0.8	80.23	5.6	(1.5)	18.5	(2.1)	34.6	(2.1)	29.5	(2.6)	9.7	(1.8)	1.2	30.5)
United Kingdom (England)	0.5	10.33	2.7	80.53	10.8	02.55	23.8	CLU	30.5	(1.2)	22.5	0.30	8.1	E0.50	111	10.33
United Kingdom (England) United Kingdom (Northom Ireland)	0.3	10.33	2.3	80.50	9.6	(1.2)	23.0	(1.8)	30.7	0.2	23.8	0.0	8.6	0.30	1.2	(0.6)
United Kingdom (Northam areand) United Kingdom (Wales)	0.5	80.20	3.6	80.20	13.7	0.0	25.0	01.30	30.7	0.2	18.0	D.O	5.0	80.73	0.7	20.30
Note: See Table 12.2 for entropy date.	1 63	6(2)	3.5	6(2)	157	(4.20)	761	(1.3)	1 301.7	44.73	163	tru()	3.0	BCZ)	0.2	acto



		1/11

Table S.Lc	[Part Meas		ore,	vari	atio	0 20	d ge	nde	r dif	fere	nces	in s	tude	nt p	erfo	rmai	nce i	on t	he re	adir	ıg sc	ale
		ll sa	ideati			Ge	ader d	iffere	nces							Perce	ntiles					
	Mea			dard ation	80	iye	G		(2	rence	5	th	10	жь	2	5 th	71	ith.	90	ith	93	5th
	Mean	S.E.	S.D.	S.E.	Meas score	S.E.	Myan		di	S.E.	Score	S.E.	Score	S.E.	Score	S.E.	Score	S.E.	Score	SE	Score	S.E.
Adjudicated																						
Belgrom (Flemoin Consmunity)		(2.3)	94	0.0	505	8.0	533	(3.3)		(5.3)	357	5.8	350	EE.33	453	(3.1)		(2.8)		3.72		
Spion (Andalusia)		لاكا	82	0.0	451	56.73	471	20.12	-21	95.89		DR.S		00.30	406	(2.5)	523	(5.2)	567	15.40	594	\$5.59
Spain (Nagon)		ŒIJ	85	(2.3)	479	0.8		(4.1)		6.0		0.3		(数2)		(5.8)		(EL1)		0.50	624	5.5
Spain (Naturas)		(8.8)	25	2.5	427	25.03	505	52	-28	9.2	322	8.7	365	(7.5)	432	(5.25)	558	0.0	604	15.60	629	5.9
Spain (Balanc Hands)	457	0.0	92	0.2	440	26.02	424	5.25	-34	(5.7)	294	0.13	334	95.03	399	(8.1)	521	6.7	570	(7.1)	597	5.0
Spoin (Basque Country)	494	œ	85	0.80	427	6.8	513	2.75	-35	9.9	345	23	382	8.30	442	65.00	553	0.5	596	0.00	622	(5.3)
Sporn (Cortary Mande)	448	838	122	(2.3)	400	8.7	461	650	-25	(5.0)	294	02.23	329	07.40	355	(5.5)	518	0.20	562	13.00	385	45.00
Spain (Cantabria)	458	8.11	88	(2.3)	470	6.2	505	8.7	-36	0.5	331	(7,8)	316	6430	431	(5.1)	350	(5.5)	537	\$5.00	624	6.5
Spren (Cavitile and Leon)	503	(8.00	85	(2.1)	457	9.2	518	(3.7)	-31	6.0	349	09.4	310	0.5	452	(7.3)	562	66.80	607	(5.3)	632	19.73
Sport (Catalonia)	416		27	0.4	434	(5.3)	513	538	-29	(4.5)	345	01.2	388	(8.90	448	(7.2)	557	HAR	527	挑助	618	0.59
Span (Costa and MeMb)	412	(2.5)	104	0.00	395	9.7	425	2.55	-27	94.0	242	92.30	279	(SLQ)	336	(5.2)	490	HAD	547	84.50	577	5.6
Sport (Calicia)	400	8.40	87	0.73	465	(5.2)	503	25.28	-35	(5.5)	329	(7.8)	368	(7.2)	430	0.49	548	8.7	593	(5.2)	516	(5.3)
Spain (La Riola)	498	2.40	31	(2.2)	480	0.0	516	0.2	-36	(5.2)	334	(2.9)	372	(53)	435	65.60	365	0.73	605	11.73	632	65.10
Span (Madrid)	503	840	85	0.25	435	5.0	521	50	-26	0.31	355	(BLD)	394	(7.9)	430	(5.4)	562	84.50	607	8.6	631	66.59
Spain (Murcu)	450	5.1)	80	CO	471	0.2	409	6.19	-17	6.2	346	(8.5)	375	(7.0)	425	(5.2)	535	(5.60	582	(6.8)	605	95.33
Spain (Naxome)	497	g.n	85	(2.1)	460	84.25	510	0.0	-36	62	352	(0.4)	385	0.73	442	(4.3)	557	0.50	6/30	0.70	625	49.49
United Kingdom (Scotland)	500	0.23	25	0.0	485	(5.5)	512	9.05	-24	65.0	341	9.20	379	8.39	439	0.40	547	0.5	621	830	650	(5.2)
Non-adjudicated			-																9-1			
Belgram (French Community)	490	H2	209	(2.0)	478	942	503	(8.5)	-26	(7.1)	299	8.0	335	(5.5)	435	847)	574	(4.1)	624	(5,80)	650	H.5)
Belgsen (Comman-Speaking Community)	499	2.00	90	0.20	479	9.9	519	31.72	-41	C.Al	346	03.39	379	848	437	84.00	544	66.03	609	(5.30	637	0.4
Finland (Finnish Speaking)	538	(2.4)	26	0.0	510	2.5	565	2.9	-55	(2.5)	384	(6.03	422	0.40	463	0.03	399	0.49	643	(2.7)	667	(2.7)
Finland Gwedish Speaking)	511	2.0	az.	12.00	451	0.9	535	0.0	-54	(4.13)	365	(5.1)	356	(5.2)	453	0.20	574	D.30	618	H-50	6-95	15.39
Italy (Provincia Abruzzo)	410	(4.40)	51	(6.3)	455	DA	504	5.6	-45	63	326	0.5	362	(7.1)	420	0.50	547	6.6	532	65.00	615	(5.3)
Italy (Provencia Autonomia di Bolzano)	490	0.20	31	an	465	8.7	511	0.16	-63	0.3	325	00.6	364	630	433	(5.30	556	(3.3)	605	0.0	630	64.25
Italy (Provincia Basilicata)	473	(4.5)	86	GAD	452	BE	496	91.25	-43	6.2	330	0.0	359	830	430	0.40	536	64.30	584	(5.20	610	(7.4)
Italy (Provincia Calabra)	448	5.2	90	0.7)	423	0.2	405	0135	-54	(7.3)	257		327	(11,3)	385	(7.5)		(5.7)	565	(7.2)	591	5.40
Italy (Provincia Campania)	451	5.60	53	56	428	BE	461	53	-53	900	295	05.30	332	(80.8)	389	(7.7)	517	(7.5)	568	(7.6)	595	(7.49
Italy (Provincia Emilia Romagna)	502	14.09	99	0.9	489	(1.1)	515	20	-27	0.3	326	(11.6)	370	(12.1)	437	05.30	577	8.50	622	H-20	645	46.1)
Italy (Provincia Fruit Veneza Giulia)	513	85.73	92	64.0	457	5.0	541	64	-54	05/73	349	01.2	387	81.40	456	(7.40)	578	£5.50	625	55,20	650	45,32
Italy (Provences Lazer)	481	0.9	91	(2.4)	460	65.03	506	6.7	-45	0.2	325	0.11	359	8.7	417	(5.1)	550	45.28	597	85.75	622	0.80
Italy (Provincia Liguria)	491	3.0	94	(2.3)	457	(15.5)	519	6.2	-52	(SZD)	322	02.5	361	01.9	433	D4.D	555	03,80	605	15.25	633	95.35
Italy (Provinces Lombardies)	522	5.0	90	o n	301	84.73	544	70	-43	90	360	0230	396	00.71	467	(7.7)	585	65.13	630	(7.4)	656	(7.6)
Baly (Province: Marche)	499	7.30	92	60	475		523	66.79	.45	02.00	334	04.9	372	04.60	436	D2.13	366	86.30	613	15.38	639	65.50
Italy (Provincia Molise)	471	2.0	84	0.0	469	0.71	493	(3.2)	-66	(6.2)	320	(0.1)	359	(7.4)	414	15.50	233	(5.5)	576	(5.80	602	15.20
Italy (Provincia Pierropte)	496	5.9	95	(3.2)	481	0.9	511	50		650		(9.9)	369	(8,9)	429	00.79	566	(5.3)	613	15.00	639	65.35
Italy (Provincia Paulia)			86.	0.0	455	65.9	512	53		6.0	339	01.29	374	(7.5)	434	16.70	552	(5.1)	594	15.00	620	65.25
Italy (Provincia Sardegra)	459	(4 3)	53	340	442	5.9	494	65.16	-53	65.03	310	0.30	350	75	409	(5.6)	537	(5.40	586	(5.2)	613	15.60
Italy (Provincia Sicilia)		8.0	100	6.0		(80.7)	677	AB	.49	62	226	02.9	322	046	350	D130		D7.30	576	15.50	605	(7.36
Italy (Provincia Toscana)		(E.S)	96	GO	470	7.0		65.16		BB		0039		63	408	0.7)		нл	608	14.20	633	440
Italy (Provincia Tremo)	908	2.7	93	0.30	490	119	530	6.5	-42	19.91	343	15.9	381	16.50	446	(5.7)	575	B.40	624	15.70	651	5.60
Italy (Provincia Umbria)		(5.3)	99	(3.7)	457	7.0		540		0.8		D3-0		me	425	8.0		6480	610	(\$ 50	637	55
Baly (Provence Valle d'Acsta)		0.21	86	(2.D	996	G.O	573	339		64.53	362	59	398	(7.0)	459	0.96	526	B-90	623	44.30	649	05 1)
Italy (Provincia Veneto)				(41)	428	79.11		6.9		0240		13.0		03,0	448	(8.1)		(5.7)	615	15 T)		7.9
United Kingdom (England)		28)	95	0.4	482	64.30	507	8.9	-25	54	334	(19	370	(3.6)	430	0.4	561	0.59	616	(3-1)	646	8.10
United Kingdom (Northern Irokind)		(4.8)		8.9	485		513	38		50		(13.2)		50		(5.5)		0.69		B-80		54
United Kingdom (Wales)		3.0		0.6	462	8.9		3.H		0.2		15.2	373	(5.2)	414		541	0.6	595	11.20		6.0

Note: See Table 1.2.3 for national data.

Values that are softstocally significant are indicated in bold (see Annex A3).

StrateLink: https://doi.org/10.1107/mms22343335



Table S.Ld

								Proficie	ncy leve	ks						
	(fee	Level 16 than 2.04	(from to let	rel 10 262,04 to thus 6,25	(from	el 12 134.75 is then 7.47	to le	vel 2 467,47 is than 0.15	(from	vel 3 480.18 vs than 2.89	from to les	rel 4 552.89 or than 5.61	from to les	rel 5 625.61 or than 8.32	(above	vel 5 698.32
		points)		points)		points)		points)		points)		points)		points)		points
Adjudicated	3	S.E.	3	S.E.	5	S.E.	%	st.	%	s.t.	%	S.E.	%	S.E.	5	S.E.
Relatum Flornish Community)	0.4	(0.1)	2.3	(0.1)	8.0	(0.7)	17.2	42.50	25.3	(0.9)	27.1	(1.0)		(1.0)	1.2	(0.5)
Sour (Andalusin	4.4	0.0	Z.1	(1.0)	15.6	CLO	28.5	(1.5)	28.1	(1.9)	11.1	(1.3)	1.2	(0.6)	0.1	(0.1)
Soan (Asser)	2.1	(0.6)	3.2	40.70	12.7	(LD	26.1	(1.0)	29.3	(1.5)	20.3	(1.7)	6.5	(1.2)	1.1	(0.4)
South (Assurias)	2.5	(D.E)	1.7	(0.8)	11.3	(1.2)	21.8	(1,4)	29.1	(1.5)	20.0	(1.2)	7.4	(1.0)	1.1	(0.3)
Souin (Baleuric Islands)	5.0	(1.1)	9.0	(2.4)	15.4	(1.2)	25.4	(1.8)	24.2	(1.9)	15.0	(1.6)	5.3	(0.5)	0.8	(0.7)
Spain (Barque Country)	1.4	10.33	4.1	0.50	11.3	80.70	24.1	10.81	30.9	(0.8)	20.9	(D.9)	4.4	(D.A)	0.9	(0.2)
Spain (Danque Courty) Spain (Canary March)	4.5	(0.7)	2.2	(1.5)	21.0	(1.4)	25.8	01.23	24.3	(1.5)	11.9	0.0	2.0	(0.5)	0.2	(0.1)
Span (Centabra)	2.1	(D,6)	5.1	10.71	13.0	(1.2)	23.3	0.49	29.8	(1.4)	19.4	0.40	5.6	(1.3)	0.8	(0.3)
Spain (Cartillera) Spain (Cartille and Leon)	1.3	(0.4)	3.8	(0.4)	10.5	63.20	29.1	(1.4)	31.2	(1.4)	22.9	0.49	8.8	(1.3)	1.3	(0.4)
Spain (Catalona)		10.40	4.1		10.5	0.4		0.8		0.8		(II.9)	6.6		0.0	10.33
	1.5			10.0)			22.1		31,0		22.7			(0.9)		
Spain (Ceuta and Mehlia)	13.0	(1.1)	16.1	(1.4)	20.7	(3.3)	23.4	01.33	17.2	(La)	9.3	(0.3)	1.8	(D.40)	0.1	(0.2)
Spain (Calicia)	2.3	(0.5)	5.8	12.80	13.1	(1.1)	24.1	(1.5)	29.9	(1.3)	18.8	(1.5)	5.3	(0.5)	Q.Z	\$0.30
Sparn (La Roja)	2.5	£0.63	5.0	(0.6)	32.5	(1.3)	22.9	0.40	29.8	(1.8)	20.6	0.49	5.9	(0.9)	0.8	10.50
Spain (Madrid)	1.3	\$13.40	3.8	\$2.40	11.2	(1.2)	23.5	(8.5)	30.3	0.20	22.0	(2.0)	2.0	0.30	0.9	10.40
Span (Marca)	1.2	10.40	4.2	40.60	14.5	(3.40	25.2	(1.4)	31.1	(1.3)	17.2	(1.6)	4.5	0.60	0.Z	(0.3)
Spain (Navarre)	1.3	ID.40	3.9	g2L23	11.8	(3.3)	24.5	(1.3)	30.9	2.0	20.8	0.40	6.2	D.O	0.6	(0.3)
United Kingdom (Scotland)	1.5	(0.3)	4.4	(0.0)	12.3	\$3.50	21.5	(1,1)	27.3	(1.1)	21.0	0.49	9.5	(0.0)	2.5	(0.5)
Non-adjudicated		-														
Belgum (French Community)	1.1	(0.5)	9.0	(0.9)	14.5	(1.0)	29.2	(3.3)	25.6	(1.3)	21.7	(1.0)	7.2	(0.7)	9.5	(0.2)
Belgium (Comian-Speaking Community)	1.1	(0.4)	1.9	13.00	11.0	(3.1)	21.3	(2.0)	29.9	(2.5)	24.2	(1.9)	7.8	(1.2)	1.0	19.50
Finland (Finnish Speaking)	0.5	(0.2)	2.5	10.33	7.4	0.6	16.2	(3.0)	27.0	(0.2)	27.6	(0.8)	15.5	(0.0)	3.2	60.40
Finland (Swedish Speaking)	9.2	(0.3)	3.3	10.60	10.3	63.20	20.9	03.49	27.2	0.40	25.1	(1.6)	19.3	(1.2)	2.2	60.40
Italy (Provences Abruzzo)	2.1	(0.6)	5.3	10.80	14.5	(3.8)	24.9	(2.2)	28.5	(1.8)	19.2	(1.6)	4.9	(1.0)	0.6	69.50
Italy (Provincia Autonoma di Bolizano)	2.0	(0.5)	5.2	(1.1)	11.6	(3.1)	21.5	3.49	27.9	(1.2)	21.3	(1.0)	0.4	10.00	1.6	10.33
Italy (Provincia Basilicata)	2.0	(0.6)	5.5	(7.3)	16.7	(1.2)	25.9	(2.0)	27.0	(1.5)	16.9	(1.8)	4.5	(0.7)	0.5	(0.3)
Italy (Provincia Calabria)	1.9	(1.2)	9.5	47.40	18.7	(1.3)	28.2	(2.0)	25.4	(2.5)	11.9	0.80	2.3	(0.5)	0.0	c
Haly (Provincia Campania)	4.0	(1.2)	9.0	(3.30	19.4	(1.7)	25.8	(1,2)	24.9	(1,9)	14.0	(1.8)	2.7	(0.8)	0.2	(0.2)
Haly (Provincia Emilia Romagna)	2.6	0.80	5.6	(7.0)	11.6	(9.7)	19.2	(8.5)	26.9	0.40	24.4	(1.3)	8.1	0.0	1.1	10.50
Haly (Provencia Frigh Venezia Giulia)	1.2	10.50	4.1	40.60	10.2	(1.7)	20.5	(1,5)	29.8	(1.8)	24.3	(2.0)	B.B	(1.7)	3.0	40.30
Italy (Provincia Lazio)	7.6	10.50	6.2	61.10	16.0	(1.5)	25.6	(2.1)	27.4	(1.5)	17.0	(1.3)	4.9	(1.0)	0.4	(0.2)
Italy (Provincia Liguria)	3.1	(1.2)	5,3	(1,2)	12.7	(1.6)	24.2	0.6	29.5	0.4	18.4	(2.1)	5.7	0.50	0.5	49.23
Italy (Provincia Lombardia)	1.1	(0.5)	3.8	40.90	8.1	(1.4)	18.7	(1.5)	32.1	0.80	26.3	(1.9)	8.8	(0.5)	1.1	(0.5)
Baly (Provencia Marche)	2.1	(0.9)	5.4	(1.5)	12.1	(3.7)	22.6	(1.5)	283	(2.3)	21.5	0.6	7.2	0.0	0.9	(0.40
Italy (Provincia Molise)	2.5	0.5	6.5	0.80	16.4	(1.0)	27.8	(1.5)	29.5	0.8	14.6	0.6	2.5	40.20	0.0	0
Italy (Provincia Piemonte)	2.5	(3.09	6.7	(1.5)	13.2	(2.0)	22.9	(2.0)	26.1	(2.1)	20.3	(LZ)	Z.3	(L2)	1.2	(0.40
Italy (Provincia Pierrome)	1.8	10.80	5.1	(1.0)	13.7	(1.7)	24.0	(1.9)	28.7	0.4	20.0	(1.8)	6.1	0.0	0.7	(0.31
Italy (Provincia Fogila)	3.5	(0.7)	6.3	(LD)	16.8	(8.2)	26.0	(1,7)	26.2	(1.5)	16.4	(1.5)	5.1	II.III	0.2	10.31
italy (Provincia Sicilia)	5.2	(1.8)	10.1	(2.2)	18.3	(2.1)	23.0	(2.1)	23.7	0.41	14.3	(1.2)	4.3	(1.0)	0.5	(0.3)
Rafy (Provincia Sicria) Italy (Provincia Toscana)	2.8	80.70	5.9	(3.00	12.2	(1.2)	21.9	(1.5)	28.3	(1.2)	22.4	0.5	6.0	(LLI)	0.5	10.33
Italy (Provincia Ioscana) Italy (Provincia Torma)	2.0	10.53	4.9	(0.2) (0.7)	11.9		20.4	(1.3)	28.3	0.91	23.0	0.30	8.4	0.5	1.4	
						(1.1)										(0.5)
Baly (Provincia Limbra)	3.3	(1.0)	6.3	(1.1)	12.9	(1.3)	21.5	(1.4)	28.7	(1.9)	20.2	(1.8)	6.2	(0.8)	0.9	(0.3)
Italy (Provincia Valle d'Aosta)	1.0	10.40	4.0	(0.5)		(3.3)	20.1	20	30.2	0.0	24.8	(1.2)	8.1	(1.6)	0.9	(0.4)
Italy (Provincia Veneto)	1.2	(0.6)	4.0	(1.0)	10.2	(1.3)	21.2	(1.4)	29.2	(1.2)	23.5	(1.5)	8.9	40.50	1.2	10.40
United Kingdom (England)	1.2	(0.3)	4.8	80.50	13.2	(0.7)	23.5	(8.1)	28.3	0.11	19.9	0.11	2.0	(0.7)	1.1	(0.3)
Uneted Kingdom (Northern Indiand)	1.2	(0.6)	44	82.50	12.3	(1.1)	22.5	(1.2)	29.4	0.6	21.2	(1.3)	2.6	(0.9)	2.5	(0.4)
United Kingdom (Wales)	2.1	(0.0)	5.6	(0.0)	15.2	40.50	26.3	(1.2)	29.0	0.33	16.0	(1.0)	5.0	(0.5)	0.8	(0.2)

Note: See Table 1.2.4 for national data. Search fast. Search 1833/1/de.doi.org/10.1787/8888922337905



EPart 1/71 nts at each proficiency level on the reading su by gender

Boys - Proficiency levels Level 1b Level 1a Level 2 Level 3 Level 4 Level 5 (from 262.04 to less than (from 324.72 to less than (from 667,47 nm 450, 15 from 552.85 from 625.61 to less than dess than to less than Level 6 to less then 134.71 402,42 400,10 532.8S 698,12 (above 658.32 Spain (Andalusia) (1.4) Spain (Acasson) (2.0) 25.0 8.0 Spain (Balearic Islands) 0.49 Spain (Basque Country) Spain (Canary Islands) 23.0 Spain (Cantabria) Snam (Cashle and Leon) (L&) 18.8 40.40 Spain (Catalonia) Spain (Ceuta and Mehlla) 19.5 Spain (Galicia) Spain (La Rioja) Spain (Murcia) (1.0) 15.7 28.5 (2.2) 30.0 (2.6) 163 (2.4) 3.0 0.6 (0.3) Spain (Navarre) United Kingdom (Scotland) 0.0 (0.5) 15.3 (1.4) 23.3 (1.49 (LS) 18.1 (1.5) 8.1 2.0 (0.5) Non-adjudicated Belgum French Community Belgium (Cerman-Speaking C Finland (Finnish Speaking) (0.5) 11.5 Finland (Swedish Speaking) Italy (Provincia Abruzzo) 18.5 (0.8) (0.4) Italy (Provincia Basilicata) (0.5) 19.9 (0.8) Italy (Provincia Calabra) Italy (Provincia Campania) 26.7 10.8 0.0 Italy (Provencia Emilia Romana) Baly (Provences Fritzli/Venezus Cisalus) 28.5 0.4 Italy (Provencia Lazio) Baly (Provencia Ligura) 8.6 15.9 (2.4) 24.9 25.8 15.1 (3.0) Italy (Provencia Lombardia Holy (Provences Marche) 6.8 (2.3) | 15.3 (2.4) 27.5 01.78 25.9 (3.4) 16.7 4.8 0.3 (0.3) Italy (Provincia Molise) 28.2 Italy (Provencia Premont 35.3 12.3 (2.4) Italy (Provincia Puglie) Italy (Provincia Sirologna Italy (Provencia Sicilia) Haly (Provency Toscana) (1.4) 15.9 0.3 Italy (Provincia Teorio) Italy (Provences Umbru) 8.8 15.9 (1.8) 16.2 4.5 Italy (Provincia Valle d'Acuta) Italy (Provincia Versito) 13.5 12.1 0.6 United Knodom (England)

(1.6) 23.4 (1.8)

Note See Table 1.2.5 for rational data Seartifeld https://de.doc.org/10.1007/mms2231305

1.9 (1.1) 6.8 (1.5) 15.8

United Kingdom (Northern Insland)

United Kingdom (Wales)

Table S.Le

180 5.1 (1.0) 2.1 (0.2)



[Part 2/2]
Percentage of students at each proficiency level on the reading subscale access and retriev Table 5.1.e by gender

Gals - Proficiency levels

	(few 26	Level 16 othan 2.04 points)	(from to les	el 16 262.04 is than 4.75 points2	fines to les	el 1a 334.73 is than 7,47 points)	fines to les	rel 2 467.A7 is than 0.10 point()	from to le	vel 3 480.16 ss than 2.89 points)	from to le	vel 4 552,89 as than 5.61 points)	from to le	vel 5 625.61 ss than 8.32 points)	(above	vel 6 : 658.33 points)
	5	S.E.	5	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
Adjudicated																
Belgrum (Flemish Community)	0.2	(0.1)	1,4	(0.4)	5.6	(83.0)	145	(0.1)	24.7	(1.4)	29.5	(1.5)	19.4	(1.4)	4.8	(0.7)
Spain (Andalusia)	3.0	(1.1)	5.4	(1.4)	12.6	(2.0)	30.0	(3.0)	31.0	(2.6)	14.6	(1.9)	3.5	(0.9)	0.0	c
Spalin (Aragon)	0.5	(0.3)	2.3	(0.9)	10.1	(1.2)	22.4	(1.5)	313	(1.9)	26.1	(1.9)	8.0	(1.5)	1.4	(0.6)
Spain (Asturias)	1.4	(0.6)	4.3	(1.0)	9.1	(1.5)	20.5	(2.0)	30.2	(2.1)	23.5	(2.1)	9.4	(1.6)	1.7	(0.6)
Spien (Balcanc Islands)	2.8	(0.9)	6.5	(1.4)	13.2	(1.5)	24.8	(2.4)	27.2	(2.4)	18.3	(2:0)	5.9	(1.1)	1.2	(0.5)
Spein (Basque Country)	0.4	(0.2)	2.3	(0.4)	7.9	(0.8)	21.5	(1.1)	34.0	(1.4)	24.6	(1.1)	8.0	(1.0)	1.3	(0.3)
Spidn (Carrary Islands)	3.5	(0.8)	6.9	(1.4)	19.1	(2.2)	26.6	(2.1)	25.6	(2.2)	14.5	(1.6)	3.5	(0.7)	0.3	(0.3)
Space (Caretabna)	09	(0.5)	3.4	(0.5)	102	(1.2)	21.9	(1.9)	32.2	(2.0)	22.4	(2.7)	8.5	(1.9)	0.5	(0.3)
Spein (Castile and Leon)	0.8	(0.4)	2.2	(0.6)	7.5	(1.1)	18.2	(1.7)	33.1	(2.0)	27.0	(2.1)	9.3	(1.2)	1.9	(0.6)
Spain (Catalonia)	1.0	(0.5)	2.7	(0.9)	8.6	(1.5)	209	(2.4)	320	(2.2)	25.3	(2.7)	8.0	[1:5)	1.3	(0.5)
Spain (Couta and Mehlla)	8.5	(1.2)	15.0	(1,5)	21.9	(1.6)	22.7	(2.2)	19,3	(2.2)	10.0	(1.4)	1.9	(0.5)	0.4	(0.3)
Spain (Galicia)	0.7	(0.3)	3.3	(1.0)	9.7	(1.4)	24.5	(2.0)	32.6	(1.7)	21.1	(1.5)	7.1	[1.3)	1.0	(0.4)
Spain (La Rospi)	1.4	(0.6)	4.0	(0.9)	9.1	(7.6)	21.0	(2.6)	32.2	(2.5)	23.5	(2.0)	7.6	[1.4)	11	(0.5)
Spain (Wadrid)	8.0	(0.4)	2.1	(0.8)	8.0	(1.3)	21.0	(2.3)	31.8	(2.4)	26.3	(3.2)	8.9	[1.9)	1.4	(0.4)
Span (Muco)	7.1	(0.5)	4.7	(1.3)	13.3	(1.3)	22.9	(1.7)	32.1	(2.6)	19.1	(2.0)	5.9	[1.0)	0.9	(0.5)
Spain (Naxorre)	0.7	(0.4)	1.9	(0.8)	9.2	(1.5)	21.7	(1.9)	31.7	(2.1)	25.3	(2.3)	8.2	[1.9)	1.2	(0.8)
Unsted Kingdom (Scotland)	0.7	(0.1)	2.3	(0.4)	93	(0.9)	19.8	(1.5)	301	(1.5)	21.9	(17)	10.9	(1.2)	3.0	(0.6)
Non-adjusticated							V								4	
Beloken French Community)	1.5	(0.4)	5.2	80.93	12.7	(1.3)	20.1	(1.5)	28.1	(1.9)	21.7	0.50	7.8	(1.0)	0.9	(0.3)
Belgum (Cernan-Socakov Community)	0.6	(0.4)	1.5	10-80	6.3	(1.4)	19.4	(2.5)	31.4	(3.3)	29.2	0.00	9.0	(1/5)	1.6	(1.0)
Finland (Finnish Speaking)	0.3	(0.2)	1.0	(0.2)	3.7	(0.7)	11.4	(0.9)	25.8	(1.1)	33.2	(1.3)	19.9	(1.1)	4.7	(0.6)
Finland (Swedish Speaking)	0.0		1.2	(0.5)	6.8	(1.2)	15.8	(1.5)	27.6	(1.9)	31.4	(2.2)	13.7	(1.7)	3.5	(0.8)
Italy (Provercia Abrusco)	15	(0.4)	2.5	(0.9)	10.1	(2.0)	22.5	(3.4)	30.6	(3.2)	24.9	(2.6)	6.9	(1.7)	0.8	(0.7)
Italy (Provincia Autonoma di Bolgano)	1.0	(0.6)	3.6	(1.2)	7.1	(1.4)	19.7	(1.9)	31.5	(2.0)	25.3	(1.6)	9.7	(1.2)	2.1	(0.4)
Italy (Provence Baselicate)	0.7	(0.6)	3.6	(0.9)	13.1	(1.9)	25.9	(2.5)	29.5	(2.3)	20.4	(2.7)	5.9	(1.2)	8.0	(0.5)
Italy (Provencts Calabrio)	0.9	(0.4)	4.5	(7.5)	142	(1.7)	29.5	(2.3)	31.8	(2.9)	15.9	(2.4)	3.0	(0.8)	0.0	c
Italy (Provencia Campania)	1.4	(7.00	4.9	(1.4)	13.9	(2.2)	27.3	(2.9)	31.1	(2.5)	182	(2.5)	3.1	(1.2)	0.0	c
Italy (Provincia Emilia Romagno)	2.2	(0.9)	5.2	(7.40	10-4	(1.9)	182	(2.4)	27.2	(2.7)	27.1	(2.4)	8.5	[1.6)	1.3	(0.6)
Italy (Provencia Fault Venezia Gialia)	0.6	40.53	1.4	(0.5)	5.5	(1.7)	17.8	(1.9)	313	(3.1)	30.1	(2.9)	11.8	(1.80	1.7	(0.7)
Italy (Provincia Lazio)	1.3	(0.5)	3.2	(0.9)	12.2	(2.1)	23.6	(2.3)	31.0	(2.2)	21.4	(2.0)	4-8	(1.6)	0.5	(0.5)
Italy (Provence Legans)	0.9	(0.5)	2.8	(7.2)	9.0	(1,8)	23.5	(2.3)	33.7	(2.6)	22.3	(2.1)	6.9	[7-3)	0.9	(0.4)
Italy (Provincia Lombardia)	0.5	(0.3)	2.2	(3.3)	5.7	(1,6)	15.6	(2.3)	32.8	(2.3)	30.6	(2-5)	11-0	[7.30	1.5	60-60
Italy (Provencia Marche)	1.5	(0.9)	3.7	(0.9)	8.2	(1.4)	167	(2.1)	312	(2.2)	27.2	(2.1)	9.9	(1.7)	1.5	(0.6)
Italy (Province Molise)	9.7	(0.4)	2.5	00.70	108	(7.6)	27.4	(2.5)	37.4	(3.2)	17.8	(2.5)	3.0	10.93	0.0	
Italy (Provincia Premonte)	1.6	(0.7)	5.7	(1.7)	11.2	(2.3)	22.3	(2.3)	27.2	(2.7)	21.2	(2.3)	9.0	17.60	1.7	(0.6)
Italy (Provincia Paglia)	0.4	(0.2)	23	(0.8)	10.5	(1.7)	22.3	(2.4)	31.6	(2.7)	24.1	(2.7)	7.9	[7-6)	1.0	(0.6)
Italy (Provincia Sardegra)	0.6	(0.4)	4.2	(7.5)	13.4	(1.5)	23.4	(2.1)	29.1	(2-2)	21.4	12.40	6.8	(1.5)	1.0	(0.5)
July (Provinces Sectio)	2.5	(1.49	6.6	(3.2)	15.7	(2.8)	23-1	(2.2)	29.0	(3.0)	17.4	(2.7)	49	[1:49	0.6	(0.5)
Italy (Provincia Toscana)	1.3	(0.29	3.2	(1.3)	8,1	(1,7)	19.5	(2.0)	30.5	(2.7)	28.5	(2.1)	8.2	(2.1)	0.7	(0.4)
Italy (Provincia Trento)	0.0	c	2.7	(1-29	85	(7.9)	167	(1.7)		(2.7)	27.6	(2.5)	10.7	(2.1)		(0.7)
Italy (Provincia Umbria)	1.0	(0.6)	3.9	(7.0)	10.1	(1.4)	20.8	(2.4)	31.3	(2.8)	24.1	(2.4)	7.8	(3.39	1.3	(0.5)
taly (Provincia Valle d'Mosta)	0.0	c	2.3	(2.3)	10.9	(1-7)	18-2	0.6	30.9	(3.0)	27.4	(2-5)	8.7	12-69	1-3	(0.6)
Italy (Provincia Veneto)	0.3	(0.3)	1.3	(0.7)	67	(1.4)	19.0	(1.8)	312	(2.1)	27.7	(2.5)	119	D 69	1.8	(0.6)
United Kingdom England)	8.0	10.33	3.1	60.69	11.0	(0.9)	22.8	(1.3)	30.0	(1.5)	22.9	(1.7)	81	10.50	1,3	(0.4)
United Kingdom (Northern Ireland)	0.5	(0.3)	2.1	00.77	9.0	(1,2)	21.6	48,10	319	(2.4)	24.2	0.73	8.9	(1,3)	1-8	(0.5)
United Kingdom (Wales)	0.8	80.33	3.5	00.60	12.5	(1.3)	26.3	(1.4)	31.5	(1.5)	184	(1.3)	6.1	10.80	1.0	40.33

Note: See Table 1 2.5 for national data State Ink Waster http://dx.doi.org/10.1787/888832343304



[Part 1/1]

Table S.L. subscale access and retrieve

Table S.L.i	sub	scal	e acc	ess a	and i	retri	eve															
		All so	udesk			Ce	eder d	illero	nces							Perce	ntiles					
	Mo			dard ation	84	ys.	G	irk		rence - G)		ith	10	oth	21	eh.	71	ith	94	ith	93	5th
	Mean		S.D.		Meas		Meas		Score					S.E.								
Adjudicated	The same	-	200	-		-		_	107	-		2.1.		-		34.		3.2		-	Store	- 3.2.
Belgum (Hemsh Community)	537	(2.7)	100	17,40	530	0.5	255		-35	64.50	362	(5.8)	403	(4.7)	470	(3,5)	509	(3,5)	650	0.7	bd7	15.00
Spain (Andalusa)	458	(5.7)	101	0.20	407	6.7	470	25 64	-24	64.78	271	047	323	(12.1)	400	0.7	527	(6.0)	578	(5.7)	605	45.84
Span (Vagori)	492	(5.3)	32	(1.2)	473	65,77	511	91.75	-28	(7.8)	325	01.39	354	(90.79	412	(7.89	560	(5.5)	612	17.30	643	(7.3)
Spain (Adurtas)	492	(5.4)	105	0.0	477	86.33	538	15.16	-31	65.53	304	03.0	349	01.7	425	857	564	0.2	615	85.50	6-90	8.6
Span (Balsoric Islando)	461	(9.2)		0.30	40	65.95	481	6.5	-40	6-6	262	D4.6	300	(90.7)	390	(8.29	539	0.4	600	65.25	534	(7.5)
Sporn (Hasque Country)	496	0.2	35	(2 D	477	94.30	576	(3.0)	-29	G 98	329	85	373	0.4	417	0.9	561	0.0	612	0.5	541	0.90
Spain (Canary Islands)	444	(4.9)		0.5	400	65.10	460	5.8		is a		0.60		0.4		(7.0)		(5.30		14.50		65.81
Span (Cartabna)	450	(5.4)	100		472	65.63	505	5.36		6.0	311	0.8		0.3	425	(7.30	558	65.13	611	15.60	642	93.03
Spain (Castile and Leon)	507	(5.5)			491	(7.2)	523	53		6AR		TT 2 24		(RA)		15.60		15.50		15.20		
Span (Catalona)	499	(5.6)	97	0.51	405	8.0	513	15.01		6.0		(197)		65.11	442	(3.5)	545	(5.2)	614	(4.00	643	7.4
Spain (Couts and Mefilla)	408	(3.3)	121		307	(5.8)	419	0.9		6.0		004		8.0		(5,0)		(5.1)		5.20	595	
Spain (Galicia)	483	(5.4)	100	2.31	464	85.30	98	5.6	-39	50	306		359	G.D	421	(7,1)	552	(5.7)	604	5.0	632	(7.1)
Spain (La Riosa)	450	12.85	102	(2.9)	471	GH	505	16.79		5.7				(7.9)		6.0		BD		15.34		56
Spain (Madrid)	499	(5.0)	96	0.39	451	5.0	517	6.7	-36	(7.5)	332	0.9	373	(8.5)	439	(6.1)	565	(5.7)	615	17.25	643	69,31
Span (Murca)	484	64	93	36	476	5.0		5.6		05.00		(10.9)		(7.0)		(7.6)		6.20		5.60		6.6
Span (Navare)	495	9.73		(2.3)	478	H.35	514	3.5		5.8		01.7		2.31		5.2	560	5.0	610	H-50	636	15.11
United Kingdom (Scotland)	506	GAD			455		572	0.5		94,53		80		5.2		5.0		(6.7)		(5.1)		
Contra Kargacini promine	301	DAG	, and	LEAU	700	D.W.	ALL	Dist	1.00	ELJU	30	80.00	300	UNZ	733	Date	370	(47)	639	Date	005	DAS
Non-adjudicated																						
Belgram Grench Community)	185	(4.0)	110	(2.49)	470	6.9	196	(4.2)	-29	0542	289	5.0	335	(0.2)	490	(6-1)	544	(3.40	617	9.7)	643	65.64
Belgum (German-Speaking Community)	505	0.9	36	0.20	483	84.53	527	94.08	-44	65.30	334	090	376	(8.1)	442	(4.5)	573	5.40	621	15.60	649	0.9
Finked (Florish Speaking)	533	2.9	99	(0.3)	504	631	563	3.0	-59	2.7	358	(5,9)	400	8.0	471	(6.0)	603	6.2	654	B.30	683	0.7
Finland (Swedish Speaking)	516	GJD	99	(2.4)	487	14.5	50	3.7	-56	5.0	347	(7.4)	384	(6.8)	450	80.60	586	(4.5)	639	15.40	670	15.31
Italy (Provincia Abruzzo)	483	5.7	100	(4.5)	451	6640	503	20	-42	6.8	311	(10.2)	352	(5.3)	417	711	552	6.7	603	15.05	629	83.00
Italy (Provincia Autonoma di Bolzano)	497	0.5	105	43	475	81.63	518	(3.2)	-42	(6.3)	309	01.6	353	941	430	(6.3)	571	0.50	626	(4.2)	654	6.0
Italy (Provincia Basilicata)	473	(4-0)	92	0.0	454	65.08	494	(5,1)	-49	0.0	309	01129	366	8.8	430	(7,0)	544	140	596	1460	626	65.91
Italy (Provincia Calabria)	449	(5.7)	38	(6.1)	420	8.25	479	01.50	-58	(8.2)	276	0439	314	02.50	385	(8.3)	518	(5.7)	572	(7.25	602	64
Italy (Provincia Campania)	451	(75)	103	(1.61)	429	8.6	499	6.9	-50	8.2	224	T48	316	(12,7)	385	18.59	525	(8.5)	578	15.80	606	13.4
Italy (Provincia Emrisa Romagna)	496	64.01	109	1449	487	(5.3)	505	(2.5)	-19	6.4	300	046	346	020	427	(7.6)	575	(40)	623	0.8	650	15.23
Italy (Provincia Friuli Venezia Glulla)	507	15.40	99	65.49	482	6.7	533	65.10	-51	0.20	330	02.8	377	(80,7)	447	(7.49	576	65,03	625	15.11	652	65.73
Italy (Provincia Lazio)	474	(4.0)	100	12-9	454	05.73	497	56	-44	6.2	299	(8.1)	341	(7,8)	406	15.30	545	64.50	599	15.70	628	15-80
Italy (Provincia Liguria)	430	01.2	102	(7.9)	499	CAR	906	6.6	-47	02.9	292	(32.5)	343	063	420	D5.60	552	(2,3)	602	15.40	634	0.00
Italy (Provincia Lombardia)	514	PE 00	95	0.9	497	0.40	532	6.7	-35	670	335	0639	385	02.2	460	(7.5)	578	6.0	625	9160	654	65.73
Italy (Provincia Marche)	492	(7.8)	102	56	471	01.30	517	56	-46	man.	307	00.0	356	0.80	427	H1.30	564	D.50	617	15.30	645	64.50
Italy (Provincia Molise)	465	0.0	25	(2.2)	440	64.25	491	0.5		(4.8)		018	349	60	406	(4.0)	533	(4.2)	581	5.4	605	15.20
taly (Provincia Piemontel	487	811	107			(10.1)		18.11		6.2		07.6		014,30		112.30		(7.6)	618	18.60	649	8.9
Italy (Provecta Puglis)	458	0.0	99	(5.3)	454	18.73	510	0.9		6870				0030	423	6.0		(7.0)	610	46.08	639	18.60
Billy (Provencia Surdesmo)	469	(5-0)	107		439	95,40	497	70		86		026		0.80	401	(5,5)		(S I)		16.80	632	48-41
Italy (Provincia Sicilia)		1003	116			01.6		(13.2)		02.6		0429		062		13.60	533	(84)	593	0.56	624	
Italy (Provincia Toscana)	482	64		0.80	454	48.0	513	05.75		mag		(Te.S)		01.6		8.5		5.4		(5.6)		65.00
Italy (Provincia Trento)	500	2.7	104	(2,7)	477	14.5	525	5.5		(34)		03.30		(7.4)	433	6.0	574	630	626	(7.5)	654	
Baly (Provences Umbris)	484	5.9			460	0.8	507	53		68,21		118.29		m3 5)	418	18-96		(5.5)		15.30		65.50
taly (Provincia Valle d'Aceta)	506	0.0	100	0.21	811	94.25	517	14.01		CLE		02.0	373	8.0	445	0.8	574	(40)	621	65.33	650	5.3
taly (Provincia Vane dividua)	505	D.10	100	(8.5)	478	8.40	531	15.19		(12.8)		TT OF CR		(033)		0.49		F4-80		14.60	658	0.3
	491	GLD	101	0.91	475	94.73	936	0.9		5.7	321	(5.6)		0.2	426	0.8	361	0.31	616	14.40	649	50
United Kingdom (England) United Kingdom (Northern Instance)	499	(4.7)	101	(4.0)	681	83	516	94.00		5.0		DAY DAY		00.5		(5.8)		0.0		14.60		
	477																					
United Kingdom (Wales)	1477	0.6	28	0.89	450	14.33	101	6.7	-33	0.0	309	81)	351	DE-60	214	800	544	0.50	598	14.50	632	5.23

Note: See Table 1.2.6 for national data.
Values that are statistically significant are indicated in bold (see AmericA3).
Scandinic largest https://dx.doi.org/10.1107/888922002000



integrate and interpret

Proficiency levels

	(fee	Level 16 11an 2.04 points)	from to le	el 18 262.04 II than 4.75 points)	(from to le	el 1a 134.75 is then 7.47 points)	(from to let	rel 2 467,47 is then 0.15 points)	from to les	vel 3 480.18 us than 2.89 points)	from to le	vel 4 552.89 sc than 5.61 points)	from to le	vel 5 625.61 ss than 8.72 points)	(above	vel 6 658.3: points)
	%	S.E.	5	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
Adjudicated																
Belgum (Flemsh Community)	0.5	(0.2)	3.3	(0.6)	11,3	(0.6)	21,0	19:99	25.6	03-95	25.2	(1.2)	116	(1.1)	1.6	(0.4)
Spain (Andalusia)	17	(0.6)	4.9	(7.7)	17.0	(1.7)	29.8	(3.6)	30.8	(1.8)	12.1	(1.3)	17	(0.5)	0.0	
Spain (Aragon)	0.5	(0.2)	3.0	(0.7)	11.0	(7.1)	25.6	(2.6)	34.2	(1.6)	20.8	(1.5)	4.6	(0.6)	0.2	(0.1)
Spain (Asturas)	1.2	(0.5)	4.4	(0.40)	12.4	(1-2)	24.6	(1.7)	31.0	(1.4)	20.6	(1.49)	5.3	(0.6)	0.6	(0.3)
Spain (Balearic Islandi)	2.1	(0.7)	6.9	(1.0)	19.4	(1.3)	313	(1.1)	27.1	(1.7)	116	(1.7)	1.5	(0.5)	0.0	
Sgain (Basque Country)	0.5	(0.1)	3.2	(0.5)	11.2	(9.7)	25.4	(1.0)	36.2	(1.0)	20.5	(0.5)	4.6	(D-0)	0.4	(0.1)
Spain (Canary Islands)	2.9	(0.7)	8.7	(7.1)	21,6	(1.4)	28.9	62,69	25.8	(2-2)	19.7	0.08	14	ED 33	0.0	
Spain (Cantabria)	96	(0.3)	4.7	(0.6)	12.8	(1.2)	25.8	(3.6)	32.2	(1.8)	19.4	(1.6)	4.2	(0.7)	0.3	10.23
Spain (Castrle and Leon)	0.6	(0.3)	3.7	(0.7)	9.5	(1.3)	24.8	(1.5)	34.7	0.40	22.D	(1.5)	5.0	10 (0)	0.2	10.23
Spain (Catalonia)	0.5	(0.2)	2.9	(0.7)	10.7	(1.3)	26.0	(3.8)	35.3	(1.7)	20.9	(1.9)	3.6	(0.7)	0.1	(0.1)
Spain (Ceuta and Mehlla)	6.3	(0.6)	15.7	(1.1)	25.7	(7,3)	25.0	(1.6)	18.8	(1.3)	7.1	00.80	1.2	E0.40	0.0	
Spain (Calicia)	1,0	(0.3)	4.5	(0.6)	13.6	(1.5)	26.6	(3.7)	32.9	(1.6)	12.6	(1.3)	3.7	[0.50	0.0	-
Spain La Riolai	0.7	(0.3)	4,1	40.7)	13.4	(1,2)	21.4	(1,6)	31,1	(1.8)	22.5	(1.6)	6.2	(1.0)	0.6	40.30
Souri (Madind)	0.7	(0.4)	2.7	(0.7)	9.6	(8-1)	22.8	(1.6)	33.4	(1-8)	23.9	(1.7)	6.4	(1.1)	0.5	10.33
Scorn (Murcia)	06	(0.5)	3,5	40.80	15.6	(1,5)	289	(1.5)	32.7	(2.0)	15.6	(1.6)	3.0	(9.6)	0.0	100
Span (Naore)	0.4	(0.2)	3.3	03-73	12.2	(1.3)	23.7	(1,4)	36.2	(1-5)	20.4	(1.4)	5.3	(0.6)	0.4	40.23
United Kinadom (Scotland)	0.7	(0.2)	3.6	(0.5)	123	(0.5)	25.2	(1,1)	28.4	(1.5)	20.3	(1.3)	8.2	(1.0)	1,3	10.33
CHMSS Kingsom (Scoulate)	0.7	(US)	3.0	(0.3)	123	(66.7)	252	(4.17	20.9	(122)	203	(12)	0.2	(1.0)	1.3	10.5
Non-adjudicated																
Belgram (French Community)	2.6	(0.6)	7.4	(0.0)	143	(8.09	200	(1.1)	23.9	(1.3)	210	(1.0)	9.6	(0.0)	1.5	(0.3)
Belgium (Cerman-Speaking Community)	0.5	(0.3)	3.7	(0.99	13.8	(3.2)	231	(1.8)	26.8	(2-2)	23.6	(2.3)	7.8	(1.1)	0.9	(0.5)
Finland (Finnish Speaking)	0.2	(0.1)	1.2	(0.2)	6.1	(0.4)	16.2	(07)	29.7	(0.9)	393	(0.9)	100	(0.6)	2.3	(0.3)
Finland (Swedish Speaking)	0.4	(0.2)	2.3	(0.4)	9.8	(7.1)	24.6	(1.6)	30.1	(1.5)	24.0	(1.6)	7.9	(0.5)	0.9	(0.4)
Italy (Provincia Abruzzo)	0.8	(0.6)	4.4	(0.7)	14.4	(1-5)	27.1	(2.1)	29.6	(1.7)	192	(1-7)	4.3	(1.0)	0.0	0
Italy (Provincia Autonoma di Bolzano)	10	(0.6)	4.6	(0.9)	12.4	(1.2)	25.5	(1.8)	31.0	(1-7)	19.9	0.0	5.1	(8.0)	0.5	(0.2)
Italy (Provincia Basilicata)	0.4	(0.3)	4.8	(1,2)	16.8	(1.6)	28.6	(2.1)	393	(2.0)	16.1	(1.5)	2.9	(0.6)	0.0	
Italy (Provincia Calabras)	1.7	(7.0)	7.9	(1-7)	21-5	(9.80	29.8	(2.4)	25.9	(1-5)	113	(1-4)	18	(0.5)	0.0	
Italy (Provincia Campania)	2.2	(1.2)	7.0	(1.3)	19.8	(1.8)	29.3	(2.5)	26.5	(1.8)	13.1	(2.0)	2.0	(0.7)	0.1	40.13
Italy (Provencia Emilia Romagna)	0.8	(0.3)	3.8	03-60	11.3	(8-1)	21.4	(1.8)	27.3	(1.7)	25.5	(1-6)	89	(1.2)	0.9	40.40
Buly (Provency Frital) Venezus Cindus	0.8	(0.6)	3.1	(0.89	9.3	(1.3)	200	(1.5)	30.7	(1.8)	25.7	(0.0)	94	(1.2)	1.0	40.33
Italy (Provencia Lazio)	0.6	40.33	4.1	(0.6)	15.0	(3.4)	26.8	(3.7)	28.8	(1.6)	19.1	(1.6)	5.3	[1.2]	0.2	10.23
Baly (Provencia Liaura)	1.5	(7.0)	4.9	(7.5)	11.2	(7.6)	22.9	(1.9)	30.1	(2.6)	217	(1.2)	7.0	(1.2)	0.7	40.33
Italy (Provencia Lombardia)	0.3	(0.2)	3.1	(1.0)	8.2	(3.0)	17.4	(1.7)	39.7	62.00	27.9	(8.1)	10.8	(1.6)	1.5	10.6
Holy (Proversia Marchy)	0.3	(0.3)	3.3	(1.2)	12.1	(2.6)	23.0	(2.0)	303	(2.3)	23.0	(1.9)	7.2	(1.3)	0.8	40.5
Italy (Provincia Molise)	0.6	(0.3)	3.9	(0.6)	14.8	(8.1)	31.0	(2.3)	32.6	(2.7)	15.3	(1.7)	1.7	[0.6)	0.0	
Italy (Provencia Premontal)	0.7	(0.4)	3.4	(0.5)	12.5	(7.4)	23.8	(1.7)	289	(1.2)	22.5	[0.1]	7.9	[1.0]	0.7	10.33
(Salv (Provincia Puglie)	0.5	(0.3)	3.5	(0.7)	12.8	(1.7)	25.6	(2.3)	33-2	(2-1)	20.4	(1.9)	3.6	(0.7)	0.3	10.33
Baly (Provincia Sirolesna)	1.4	(0.6)	4.7	(0.5)	18.5	(7.6)	28.4	(1.6)	27.3	01.6)	162	(1.4)	3.2	(0.7)	0.3	10.25
Baly (Provencia Sicilia)	3.3	(1-5)	6.6	(1.5)	18.4	(2.3)	27.8	(2.4)	27.2	(2.5)	13.6	(1.8)	2.8	[0.6]	0.2	10.13
Italy (Provincia Sicilia)	0.8	10.37	4.8	(1.0)	12.7	(1.3)	22.3	(3.5)	28.4	(1.7)	24.1	(1.2)	6.5	[1.0]	0.2	00.33
tuly (Provincia Insciria)	0.6	(0.3)	2.8	(0.7)	10.3	(1.4)	209	(1.2)	29.9	(1.6)	24.6	(1.5)	9.8	(1.2)	1.0	10.33
Ruly (Provincia Interno) Ruly (Provincia Umbrui)	11	(0.5)	5.0	(3.0)	10.3	(1.4)	22.5	(1.2)	25.9	(2.1)	22.0	(1.3)	6.1	(1.2)	0.8	
Rely (Provencia Umbria) Rely (Provencia Velle d'Acuta)																(0.3)
	0.3	(0.2)	2.4	(0.6)	8.2	(1.0)	21.4	(2.1)	32.5	(2.4)	25.6	(1.0)	8.7	(1.3)	0.9	(0.4)
Italy (Provincia Versito)	0.6	(0.5)	3.1	(1.1)	103	(1.5)	21.7	(1.8)	32.3	(2.1)	23.8	(1.8)	7.5	(1.1)	0.7	(0.3)
United Krigdom (England)	1.0	(0.2)	4.4	(0.5)	14.7	(0.9)	24.8	(0.0)	28.2	(1-0)	185	(0.9)	7.1	(0.5)	1.2	(D.2)
United Kingdom (Northern Ireland)	10	(0.4)	4.3	(0,5)	13.4	(1.2)	24.0	(1.5)	27,0	(1.3)	20.4	(1.3)	82	(0.5)	1.6	(0.3)
Uneted Kingdom (Wales)	1.5	(0.2)	6,1	(0.7)	17-8	(1.2)	27.6	(1.1)	26.7	(1.0)	14.9	(1-1)	4.7	(D 6)	0.6	(0.2)

Note See Table 1.2.7 for national data SeatLink (Marie http://dx.doc.org/10.1787/888832343304



[Part 1/2] Table S.I.h integrate and interpret, by gender

							Boy	ys – Prof	iciency	kveli						
	(fee 20	Level 18 s than 2.04 points)	from to ke	el 16 262.04 II than 4.75 points)	(from to let	el 1a 334.75 is then 7.47 points)	(from to let	vel 2 467.47 is then 0.16 points)	from to le	vel 3 480.18 is than 2.89 points)	from to le	vel 4 552.89 se than 5.61 points)	from to le	rel 5 625.61 in than 8.32 points)	Jahovi	vel 6 698.32 points)
	%	S.E.	%	S.E.	%	S.E.	%	S.E.	76	S.E.	%	S.E.	%	S.E.	%	S.E.
Adjudicated																
Belgium (Flemish Community)	0.6	(0.2)	4.6	(0.7)	13.5	(0.99	22.8	(1.2)	247	(1,3)	227	(1.5)	9.9	(1.1)	3,4	(0.5)
Spain (Andalusia)	19	(0.7)	8.5	(1.5)	20.1	(2.0)	29.0	(2.2)	28.3	(2.2)	10.2	(1.49	1.8	(0.5)	0.0	0
Spain (Aragort)	0.9	(0.4)	5.0	{1.33	13.1	(2.2)	27.9	(2.4)	32.0	(2.1)	12.8	(2-1)	3.2	(0.7)	0.0	c
Spain (Asturas)	1.9	(0.0)	5.8	£1.20	14.9	(1.99	25-4	(1.9)	29.6	(2.0)	17.5	(2-4)	44	(1.0)	0.5	(0.3)
Spain (Balearic Islands)	3.0	(0.9)	9.3	(7.5)	22.2	(2.1)	32.2	(2.5)	23.3	(2.3)	5.9	(1.8)	1.1	(0.6)	0.0	0
Spain (Hasque Country)	9.6	(0.3)	4.7	(0.7)	15.5	(1.0)	26.9	(1.2)	30.5	(1.4)	17.5	(1-1)	3.6	(0.5)	0.3	(0.2)
Spain (Canary Islands)	3.9	(0.9)	10.3	(7.5)	23.8	(1.7)	28.5	(2.1)	22.7	(2-2)	94	(1.2)	14	(0.6)	0.0	c
Spain (Cantabria)	1.0	(0.6)	6.7	(7.5)	17.0	(2.8)	26.9	(2.0)	29.6	(2.5)	15.7	(1.9)	2.8	(0.7)	0.3	(0.3)
Spain (Castile and Leon)	0.9	(0.5)	4.8	(7.2)	11.7	(2.0)	27.5	(2.4)	323	(2.4)	187	(2.0)	4.0	(1.0)	0,0	c
Spain (Catalonia)	98	(0.4)	4.3	(1.0)	13.3	(3.40	27.5	(2.1)	33.3	(2.9)	17.8	(2.1)	2.9	(0.0)	0.0	c
Spain (Ceuta and MeN/Ia)	8.6	(1.4)	18,0	(1.7)	25.6	(7.5)	23.7	(2.6)	16.5	(2.1)	6.3	(1.3)	1,0	(0.6)	0,0	c
Spalm (Callicia)	1.8	(0.6)	6.2	(1.4)	17.3	(2.3)	27.2	(2.7)	30.4	(2.6)	143	(1.4)	2.7	(0.6)	0.0	c
Spain La Riola)	1.1	(0.5)	5.7	(7.1)	16.9	(2.0)	23.8	0.60	27.7	(2.2)	193	(1.8)	5.3	(1.1)	0.0	c
Soon (Madnd)	1.2	(0.7)	4.1	(3.2)	12.8	(9.6)	25.7	(2.3)	31.2	0.41	20.3	(2.5)	44	n n	0.3	(0.3)
Spain (Murca)	0.7	(0.7)	4,3	(1.0)	17.5	(2.3)	29.8	(2.4)	303	(2.4)	14,8	(2.0)	25	(0.9)	0.0	C
Spain (Nacare)	0.6	40.30	5.2	(3.2)	16.3	(3.8)	245	(2.2)	33.0	(1.9)	16.7	(1.9)	3.4	n m	0.3	40.21
United Kingdom (Scotland)	1.1	(0.4)	4.8	(0.6)	14.6	(1.2)	25.9	(1.4)	26.7	(1.4)	181	(1.3)	7.5	(1.2)	1.3	10.40
Non-adjudicated	-	-	-	-	-	-	_	_		-	-	-	-	-		-
Belgram (French Commune)	34	(0.0)	87	(3.3)	15.8	(1.5)	203	(3.60	22.5	(1.5)	19.3	(1.4)	8.7	(1.1)	1.2	(0.4)
Belgium (Cerman Speaking Community)	0.7	(0.5)	5.3	(3.6)	18.7	(2.00	269	(2.5)	24.9	(2.7)	19.6	(2.8)	5.7	(1.4)	0.0	c
Finland (Finnsh Speaking)	0.3	10.23	1.9	10.40	9.4	40.69	21,8	(3,0)	32.0	(1,3)	24.6	(1.2)	8.8	(0.7)	9,1	(0.3)
Finland (Swedish Speaking)	0.8	(0.5)	3.9	10.50	14.2	(1.6)	29.8	(2.5)	27.9	(2.1)	18.7	(1.9)	4.3	(1.1)	0.4	(0.4)
Italy (Provincia Abruzzo)	Q.B	(0.6)	6.5	47.20	19.0	(2.3)	300	(2.5)	27.1	(2.2)	138	0.80	2.8	(1.1)	0.0	0
Italy (Provincia Autonoma di Bolgano)	17	(1.0)	6.4	(1.5)	17.2	(2.3)	29.4	(3.2)	25.6	(2.5)	16.0	(1.3)	3.5	0.0	0.0	c
Italy (Provincia Basilicata)	0.7	10.53	7.5	41.50	21.8	(1.50	309	(2.4)	263	(2.3)	109	(1.5)	1.8	0.6	0.0	0
Italy (Provincia Calabras)	2.7	(1,7)	12.5	(2.5)	27.4	(2.4)	28.8	(2.6)	19.7	(1.9)	7.4	(1-3)	1.4	(0.7)	0.0	c
Italy (Provincia Campania)	3.3	(1.5)	9.9	41.50	25.6	(2.5)	30.0	62.80	20.1	(2.5)	9.1	(2.2)	1.8	(0.5)	0.0	c
Italy (Provincia Emilia Romagna)	1.1	(0.6)	4.5	(1-2)	12.8	(3.4)	23.8	(2.4)	28.4	(2.0)	22.1	(1.7)	7.0	(0.5)	0.3	(0.3)
Buly (Provency Frigi Venezia Ginlat)	1.5	(1.6)	5.2	(1,3)	14.5	(1.8)	247	62.00	27.8	(2.1)	195	62.49	65	(1.5)	0.4	(0.3)
Italy (Provencia Lazio)	1.0	(0.5)	5.8	41.00	20.3	(2.2)	287	(2.7)	25.7	(2.4)	14.6	(1.8)	3.7	(1.0)	0.3	(0.2)
Baly (Provencia Liaura)	2.7	(7.8)	7.3	(3.2)	15.5	(2.4)	26.1	(2.8)	26.9	(3.8)	15.9	(2.3)	5.2	(1.4)	0.2	(0.3)
Italy (Provencia Lombardia)	0.4	(0.3)	4.8	(1.5)	10.6	(3.6)	21.5	(2.5)	31.1	(2.5)	22.9	(2.5)	7.8	(1.5)	0.8	(0.4)
Holy (Provence Marchy)	0.5	(0.4)	4.3	(2.1)	15.9	(4.6)	27.8	(2.7)	28.6	(3.5)	17.7	(2.8)	5.1	(1.4)	0.0	(C.1)
July (Provincia Moliss)	10	(0.5)	6.1	(1-4)	20.9	(2.1)	33.7	(3.2)	245	(2.7)	12 D	(2.0)	1.0	(1.1)	0.0	c
Italy (Provincia Moese)	12	(0.8)	5.0	(1.5)	15.2	(2.2)	248	(2.4)	27.1	(2.3)	21.2	(2.2)	5.1	(1.1)	0.4	10.40
Italy (Provincia Puglie)	1.0	(0.7)	5.7	(1.2)	18.5	(2.7)	27.9	(2.8)	29.1	(2-7)	15.2	(2.2)	2.4	(0.7)	0.0	0.40
Baly (Provincia Puglia)	28	(1.2)	7.4	(1.4)	23.7	(2.7)	30.7	(2.3)	21.4	(2.3)	11.3	(1.2)	2.5	(0.8)	0.0	c
Italy (Provincia Sicilia)	5.5	(2.4)	10.9	(2.3)	23.5	G-61	24.7	(2.9)	21.5	(3.0)	11.6	(1.6)	2.5	(0.8)	0.0	c
Italy (Provincia Sicilia)		(0.5)		(1.3)			25.9			(2.6)	17.9	(2.6)				
	1.2		7.0		16.9	(2.0)		(2.4)	262				4.6	(1.1)	0.2	(0.3)
Italy (Provincia Tiorno)	1.0	(0.5)	4.0	(1.1)	13.3	(1.8)	25.0	(2.2)	27.6	(2.2)	19.6	(2.1)	8.6	(1.7)	0.8	(0.4)
Ruly (Provencia Umbria)	1.5	(0.6)	7.8	(1.7)	17.6	(2.4)	242	(2.4)	26.5	(2.6)	17.3	(1.5)	42	(11)	0.6	(0.4)
Italy (Provincia Volle d'Aosta)	0.4	(0.5)	3.6	(1.1)	8.7	(1.4)	23.D	(2.5)	32.2	(2.7)	24.D	(2.7)	7.6	(1.9)	0.5	(0.4)
Italy (Provincia/Versito)	1.0	(0.9)	5.6	(2.0)	15.2	(0.0)	25.D	(2.5)	29.8	(3.5)	18.8	(2.6)	4.1	(1.0)	0.3	(0.3)
United Krigdom (England)	1,4	(0.3)	5.8	(0.7)	17.4	(1-3)	25.3	(1.3)	26.1	(1-3)	16.6	(1.3)	6.3	(0.7)	1.0	(0.3)
United Kingdom (Northern Instand)	15	(0.8)	6.0	(7.5)	16.0	(1.8)	24.2	(1.7)	26.1	(1.9)	19.2	(2.1)	7.6	(1.2)	1,6	(0.6)
United Kingdom (Wales)	2.4	(0.5)	8.1	(1.0)	19.9	(1.5)	27.3	(1.3)	24.7	(1.3)	13 D	(1-2)	-6.1	(0.7)	0.6	(0.3)

Note See Table 12 8 for national data SeatLink Ward http://dx.doc.org/10.1787/888832343304



[Part 2/2]
Percentage of students at each proficiency level on the reading subscale integrate and interpret, by gender

Gels - Proficiency levels

	(fess 26	Level 16 s than 2.04 points)	(from to les	el 15 262.04 is than 4.75 points)	to les	el 1a 334.73 is than 7.47 points)	(from	vel 2 407.47 ss than 0.10 points)	from to le	vel 3 480.16 ss than 2.89 points)	from to le	vel 4 552.89 is than 5.61 points)	from to le	vel 5 625.61 ss than 6.32 pointd	(above	vel 6 : 658.3: points!
	5	S.E.	5	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
Adjudicated																
Belgrum (Flemish Community)	0.3	(0.2)	2.2	(0.6)	8.9	(0.9)	19.0	(1.3)	26.6	(1.2)	27.7	(1.8)	13.4	(1.4)	1.9	(0.5)
Spain (Andalusia)	1.5	(0.7)	5.1	(1.3)	13.5	(2.2)	30.6	(2.4)	33.5	(3.2)	14.3	(1.9)	1.5	(0.6)	0.0	0
Spalin (Aragon)	0.0	C	1.0	(0.5)	8.9	(1.4)	23.3	(2.1)	365	(3.1)	23 8	(2.2)	6.1	(1.1)	0.2	(0.3)
Spain (Asiartes)	0.4	(0.3)	2.9	(0.6)	9.6	(1.2)	23.7	(2.6)	32.5	(1.7)	24.0	(2.3)	6.2	(1.1)	0.8	(0.4)
Span (Balcane Islands)	13	(0.8)	4.6	(1.2)	16.6	(1.6)	30.5	(1.5)	309	(2.2)	143	(2:2)	1.9	(0.7)	0.0	
Spein (Basque Country)	0.1	(0.1)	1.5	(0.4)	6.5	(0.8)	23.8	(1.4)	38.0	(1.2)	23.6	(1.1)	5.7	(0.6)	0.6	(0.2)
Spain (Carrary Islands)	1.7	(0.8)	6.9	(1.5)	19.2	(1.5)	29.4	(3.2)	29.2	(3.2)	12.2	(1.6)	1,4	(0.6)	0.0	
Spain (Carnabna)	0.0		27	00.60	8.4	(1.5)	246	(2.1)	349	(1.9)	23.2	(2.2)	5.6	(1.3)	0.3	40.23
Spen (Cartile and Leon)	0.3	10.33	1.5	00.63	7.3	(1.4)	22.3	(2.0)	37.1	(1.7)	25.5	(2:0)	6.0	(1.1)	0.3	10.25
Spain (Catalonia)	0.2	(0.2)	10	(0.6)	8.0	(3-5)	245	(2.9)	37.4	(2.5)	24.0	(2.5)	4.3	ED 50	0.2	(0.2)
Sovin (Casta and McDilla)	3.9	(0.7)	13.5	(1.5)	25.9	(1.6)	26.3	(1.8)	21.1	(1.7)	7.5	(1.2)	1.4	(0.5)	0.0	
Spain (Galicia)	0.0		2.7	60.70	2.8	(1.4)	25.9	(2.1)	35.3	(1.8)	21.1	(2.3)	4.7	(1.4)	0.0	
Spain (La Ross)	0.3	10.33	2.4	(0.8)	58	(1.7)	18.8	(1.9)	346	(2.5)	25.6	(2.4)	7.2	[1 60	1.1	10.5
Sevin (Madrel)	0.2	(0.1)	1.2	40.40	6.5	(1.3)	19.9	(1.38	15.6	(2.1)	27.6	(1.20	6.3	(1.9)	0.8	10.5
Soun (Murcu)	0.5	10.49	2.6	(1.0)	13.5	(2.3)	27.9	(2.5)	35.1	(2.4)	163	(2.2)	3.6	(1.1)	0.0	
Spain (Nasama)	0.3	(0.1)	1.2	40.70	7.7	(1.2)	22.5	(2.1)	35.6	(2.2)	24.5	(2.1)	7.4	(1.6)	0.6	60.43
United Kinadom Scotlandi	0.4	(0.3)	2.4	(0.5)	10.1	(1.2)	24.4	(1.7)	30.0	0.6	22.5	(1.0)	8.5	(1.2)	1.4	10.4
	1	feesy		40.07	1000	(-10)	,	(411.)	1000	(1-4)	1 2212	(1.40)	1 00	11100		100.0
Non-adjudicated																
Bolghem (Franch Community)	1.5	(0.6)	6.0	(1.1)	12.7	(1.5)	12.7	(1.4)	25.2	(1.7)	22.7	(1.4)	10.1	[1:1)	1.8	(0.4)
Belgum (Coman-Speaking Community)	0.0		2.0	(08)	5.6	(1.5)	21.3	(2.3)	25.5	(3.2)	27.3	(3.6)	100	[18)	1.7	(0.5)
Finkind (Finnish Speaking)	0.0	c	0.5	(0.2)	2.7	(0.5)	10.6	(0.9)	27,3	(1.2)	36.1	(1.2)	19.1	[11]	3.5	(0.5)
Finkerd (Swedish Spenking)	0.0		0.7	(0.5)	5.4	(1.2)	19.5	(1.8)	32.2	(2.1)	29.2	(2.2)	11.5	(1.7)	1.5	(0.7)
Italy (Provencia Abrusces)	0.5	(0.7)	2.2	(1.0)	3,4	(1.4)	23.9	(2.7)	32.5	(2.7)	25.1	(2:7)	5.9	(1.3)	0.0	
Italy (Provincia Autonoma di Bolzano)	0.0	E	2.9	(0.9)	7.6	(1.1)	21.5	(1.7)	36.4	(1.7)	23.5	(1.4)	6.5	(1.0)	0.7	(0.4
Italy (Provents Basilicate)	0.0	E	2.0	(0.9)	11.4	(1.5)	26.1	(2.5)	346	(2.6)	21.7	(2.4)	4.0	(1.1)	0,0	-
Italy (Provencia Calabrio)	0.5	(0.6)	3.2	(1.2)	15.5	(2.0)	30.7	(3.5)	32.2	(2.2)	15.3	(2.3)	2.3	(0.7)	0,0	-
Italy (Provincia Camponial	0.7	(0.7)	3.2	(1.40	12.3	(1.50	28.2	(3.3)	34.9	(2.6)	182	(2.9)	2.3	(0.9)	0.0	
Italy (Provincia Emilia Romagno)	0.6	(0.3)	3.1	(0.99	9.9	(1.6)	19.2	(2.5)	26.2	(2.2)	28.7	(2.5)	10.7	(1-6)	1.6	60.7
Italy (Provincia Fruit Venezia Giulia)	0.0	c	0.8	(02.50)	3.9	(1.3)	15.0	(1.6)	33.8	(2.4)	32.3	(2.1)	12.5	(2.0)	1.6	(0.6
Italy (Provincia Lazer)	0.0	c	2.2	(1.1)	9.0	(2.1)	24.6	(2.3)	32.5	(2.4)	24.3	(2.3)	7.1	(2.0)	0.0	
Italy (Provincia Ligaria)	0.0	c	2.1	(1.0)	63	(3.3)	19.3	(24)	33.0	(2.6)	26.3	(2.4)	9.0	(1.5)	1.2	(0.5
Italy (Provincia Lombardia)	60	c	1.3	60.60	5.6	(3-1)	12.8	(2.6)	30.1	(3.2)	33.5	(2.8)	14.2	[2-30	2.3	10.9
Italy (Provencia Marche)	0.0		2.2	(0.7)	7.6	(1.5)	172	(3.0)	32.2	(2.8)	29.3	(2.3)	9.7	(1.5)	1.6	(0.9
Italy (Provincia Molise)	0.0		1.3	(0.4)	5.4	(1.2)	26.1	(2.6)	41.2	(6.5)	15.5	(3.0)	1.9	(0.7)	0.0	
Italy (Provincia) Premonte)	0.0		2.0	40.90	10.1	(7.5%	72.9	(2.4)	30.5	(2.5)	21.7	(7.2)	9.7	(7,3)	1.0	50.4
Italy (Provincia Paglia)	0.0		1.4	40.53	7.3	0.49	23.4	(2.6)		(2.3)	25.5	(2.6)	4.8	(1.1)	0.5	10.4
Italy (Provincia Sardegna)	0.0		2.2	41.40	13.5	(2.1)	263	(2.4)	32.9	(2.5)	20.7	(2.6)	3.9	(I.1)	0.4	10.4
Italy (Provences Section)	1.1	(1.0)	2.4	(1.2)	13.5	(2.6)	30.6	(3.5)	32.7	(3.3)	15.6	(2.7)	3.3	10.99	0.2	(0.2
John (Provincia Toscasa)	0.4	4C.33	2.4	17.00	81	0.49	183	(2.0)	30.8	(7.6)	30.8	(2.4)	8.5	11.73	0.6	10.4
Italy (Provincia Trento)	90	C	1.4	(1-1)	6.9	(7.6)	16.4	(2.4)	32.4	0.5	30.2	(2.6)	11.2	[7-59	1.3	10.6
taly (Provincia Umbra)	0.4	40.33	2.3	40.75	9.8	0.6	20.9	(2.2)	31.2	(2.8)	26.6	(21)	7.9	(7.99	0.9	10.5
taly (Provincia Valle d'Aosta)	90	(0.3)	1.2	(0.8)	7.8	(1.4)	19.8	(2-7)	37.8	(3-1)	27-2	(3.0)	9.8	[3-6)	1.2	10.7
Italy (Provincia Vanelo)	0.0		0.7	40.63	5.5	(1.5)	18.6	(2.7)	36.7	(2.4)	28.6	(2.5)	108	(1-6)	10	10.5
United Kingdom (England)	0.7	10.73	3.1	40.63	12.1	(1.1)	243	(1-1)	30.2	(1.2)	20.4	(1.2)	7.9	10.60	1.3	10.3
United Kingdom (England) United Kingdom (Northern Ireland)	0.5	(0.2)	2.7	00.60	11.0	(1-1)	23.8	(1-1)	29.7	(1.2)	20.4	(1.8)	9.0	(0.8)	1.7	10.5
	0.7	(0.1)	4.7	00.80	15.7	(1.4)	27.9	(1.9)	28.8	(1.6)	16.8	(1.8)	5.3	(1L5) (0.6)	0.6	
United Kingdom (Wales) Note: See Table 1.2.8 for national data	0.7	80(3)	4.2	(0.7)	15.7	(1.4)	27.9	(1.9)	28.8	(1.6)	16.8	[1.5]	5.3	(U B)	0.6	(0.3)

Note: See Table 1.2.8 for national data Stantink 4000 http://dx.dni.org/10.1787/888932343304



[Part 1/1] Table S.I.i subscale integrate and interpret

Table S.I.i	sub	scal	e int	egra	te a	nd ii	sterp	eret														
		All sa	udent			Ce	oder d	illiere	nces							Perce	ntiles					
	Me 50			dard ation	Be	ys.	G	irk	(8.	rence - G)	5	th	15)th	21	5th	71	ith	90	ith	9	5th
	Mean	S.E.	S.D.	5.E.	Mc as score	S.E.	Meas	S.E.	Score	S.E.	Score	S.E.	Score	S.E.	Score	5.E.	Score	S.E.	Score	S.E.	Score	S.E.
Adjudicated																						
Belgram (Flemah Community)	515	(25)	36	(2,23)	503	(3.2)	525	(3.6)	-25	(4 b)	347	(0.3)	354	(4.9)	444	(3.6)	507	(2.7)	0.35	(3.0)	064	(4.5)
Spain (Andalussa)	461	(5-2)	87	(2.40)	452	(5.3)	471	(6.1)	-19	(5.8)	307	(104)	344	(9.59)	406	(7.2)	521	(4.7)	569	(5.3)	595	(5.8)
Spain (Aragon)	496	(3.7)	63	(7.6)	451	(5.0)	211	(6.3)	-30	(5.7)	352	7.49	387	0.40	442	(4.2)	554	(4.1)	539	(4.7)	625	(5.2)
Spwin (Asturias)	491	(4.8)	23	(2.7)	478	(6.7)	506	(5.0)	-28	(5.3)	329	(104)	358	(7.3)	431	(5.2)	557	0.49	504	(5.6)	632	(6.1)
Spen (Balearic Islands)	455	(5.3)	55	(2.5)	440	(5.8)	470	(5.9)	-20	(4.5)	306	(0.5)	340	(7.4)	397	(7.2)	516	(5.3)	567	(7.7)	585	(0.5)
Sport (Hasque Country)	416	(2.5)	54	(3.5)	450	(3.8)	513	[24]	-33	(3.3)	349	7.0	354	(5.0)	442	(3.5)	554	(2.5)	600	(3.1)	526	(2.9)
Spain (Carrary Islands)	446	(4 1)	92	0.0	435	(67)	459	(67)	-23	631	299	0.9	327	(7.2)	365	0.19	514	0.79	542	(5.1)	509	6.4
Spain (Cantabna)	488	(4.2)	- 55	(2.1)	472	(5.0)	505	(5-0)	-23	653	332	C.99	370	(8.2)	431	(5.56)	550	0.20	597	(5.50)	622	6.59
Spain (Castile and Leon)	500	(4.9)	83	(2.1)	495	(6.2)	513	(4.8)	-27	6.0	349	01.0	394	(8.7)	448	(5.3)	558	H.39	602	5.4	627	65.00
Span (Catalonia)	495	(4.6)	81	(2.3)	402	(5.5)	507	(5-C)	-25	(6.3)	353	00.25	390	p30	443	0.49	352	PL59	594	67)	615	(6.1)
Spain (Couts and Mehlla)	415	(2.5)	100	(1,80	409	0.8	426	0.2	-23	5.0	252	15-0	289	(5.3)	344	1440	467	(3.5)	545	(4.3)	577	05 CB
Spain (Calicia)	483	(4.3)	87	(1.6)	467	94.65	500	(5.1)	-33	(4.4)	331	0.6	369	6.0	426	(5.5)	544	H-9	590	5.9	617	(7.3)
Spain (La Ricia)	497	(2.3)	93	0.0	460	0.0	514	(3.3)	-33	65.70	337	(7.1)	379	5.99		(6.1)	565	(4.T)	613	14.60	635	(5.1)
Spain (Madrid)	506	84.50	86	(3.49	485	15.90	523	5.29	-35	00		PA		(7.7)	452	15.40	365	PLR)	611	15.66	636	66.63
Spain (Mercia)	479	(5.1)	82	0.79	422	5.2		15-09	-55	(52)	366	8-0	375	(5-6)	423	(7.4)	537	(5.90	592	67	503	(7.1)
Spain (Navarre)	497	0.40	86	0.90	450	8430		97	-35	(4.7)	348	0.5		0.3	438	5.1)	556	(4.6)	605	F4.80		64.69
United Kingdom (Scotland)	500	GLG.		(1.0)			510			(4.5)			378						623			
Non-adjudicated	_				-		-	-	-		-							-				
Belgum (French Community)	189	14.5	113	g.m	429	85.30	300	(5.0)	-22	(7.1)	255	0.30	335	(7.4)	401	(7.25	575	66.00	630	64.75	660	(6.6)
Belgum (German-Speoking Community)	501	90	95	0.21	480	94.61	522	94.20	-82	05.51	340	07.29		8-23	433	(4-8)		(5-0)	620	16.50	649	(7.06
Finkind (Finnsh Speaking)	540	0.5	87	0.0	515	DR	566	27	-51	2.9	387	G-84			484	0.10	600	0.89		(3.1)		
Finland (Swedish Speaking)	509	0.7	68	(1.7)	484	8.7	534	30	.50	64.30	362	5.9		8.0	449	(4.1)	571	B-25	621	14.30	643	(5.2)
Italy (Provecta Abruzzo)	484	64,(8)	99	(36)	465	(5.6)	905	5.9	-41	05.00	331	0.5	369	6-6)	424	15.30	990	(5.6)	598	15 (0)	622	(7,4)
Italy (Provincia Autonoma di Bolzano)	490	0.4	91	(2.7)	458	64.08	511	3.2	-43	0.5		02.9		(7.6)	431	(4.6)	554	(3.3)	604	(4.1)	629	(4.6)
Italy (Provincia Basilicata)	476	64.40	84		455	15.90	498	55.25	-43	65.71		00.9		0.0				64.75		(4.4)		(5.3)
Italy (Provincia Calabria)	452	5.4		(4.3)	429	0.8	476	5.3	-48	0.51		05.8		(10,5)	390	(7.9)		16.30	567	15.50	596	06.60
Italy (Provincia Campania)	458	15.91	91		436	9.0	496	5.9		(B.1)		0613		(90,4)		(7.5)		18,03	573	(8.5)	600	
Italy (Provincia Emilia Romagna)	507	64.03	96		495	66.40	500	15.75		89		01.9		(91)		6.0	579	[4-39	625	50	643	
Italy (Provincia Friuli Venezia Glulla)	513	(4.80	93		496	5.8	58	5.4		6.8		02-0		(30,5)			579	FL89		(5.3)		(5.99
Italy (Provincia Lazio)	487	(3.9)	90	0.0	467	(5.7)	909	5.7	-41	0.9	117	(4.9)	368	(6.1)	424	(5.7)	552	15.03	603	15-56	629	(9.5)
Italy (Provincia Liguria)	496	(8.9)		0.49		(NAS)		56		0.5		(281)		(23-4)						(7.2)		45.25
taly (Provincia Ligaria)	524	5.6	91	(2.6)	304	5.0	C46	Ø1		8.8		(11.5)		(77)	468	(7.0)	589	(6.7)	635	(7.1)	663	(7.1)
Italy (Provincia Marchel	503	(7.25		64.75		01.25				(12.1)			380							[4.66	644	
Italy (Provincia Maise)	476	(2.7)	80		455	87	897	3.1		(6.7)	339	(6-6)		(5.3)	422	(3.6)	535	(4.6)	576	(6.30	599	15.4)
taly (Provincia Mone)					485			53														
	500	(5.0)		(2.7)		0.2	514			(7.5)		(10.29			436	(7.7)		(5-6)		(5.1)		(5.2)
Italy (Provincia Puglia)	491	(4.9)	84		459	(6.3)	511	50	-43	(6.2)	345	20	376	(8-6)	435	(7.1)	551	5.49	592	(5.5)	617	(71)
Italy (Provincia Surdegra)	471	(4.5)		(3.2)	448	(5.9)		(6.4)		02		(75)		(7.7)				(5.7)		(5.6)	614	
Italy (Provencia Sicilia)	460	02	97	(6-2)		(10.8)	483	0.8	-47	(3.6)		(26.3)		(142)	397	98)	529	(7.5)	579	(8-1)	609	(7.3)
Italy (Provincia Toscana)	496	(4.9)		(3.1)	475	0.0		(5,6)	-46	(9.5)		000		(839)		(7.3)		(3.0)		(5.6)	636	
Italy (Provincia Trento)	513	(2.7)	92		496	(5.1)	532	(6.3)	-36	(94)		(101)		(6.8)	451	5.0	578	(3.0)	629	(5.8)	656	(5.3)
Italy (Provence Limbros)	493	(53)		(3.5)	471	(6.5)		[5.6]	-43	(6.7)		(10.7)		(9.6)		(9 S)		(51)		(5.7)	639	0.3)
Italy (Provincia Valle d'Acuta)	516	(2.6)	86	(2.1)	508	[3,5]	525	(Lq		(4.1)	365	(8-4)		(5.4)	460	(5.3)	578	[3.8)	624	(5.8)		(5.3)
Italy (Provences Viendo)	507	(5.4)			482	(2.1)		(5.1)		(11.5)		(1613)		(12.3)		(5.6)		(5.6)		(5.8)		(7.0)
United Kingdom (England)	421	(2.9)	97		479	(44)	501	(3.6)		(5.6)	330	(4.9)		(3.7)	424	(1.6)	558	0.49	615	(3.8)	650	
United Kingdom (Northern Irokand)	497	(4.2)	99	(3.3)		08		(44)		(9.6)		(11.5)		(5.1)		(5.7)		(4.7)	625	(5.0)		(5.5)
United Kingdom (Walas)	472	(3.6)	96	(8-7)	460	(41)	481	(BUT)	-24	(5.1)	313	(5.2)	349	(5.1)	406	(4.3)	539	(4.1)	594	(5.0)	629	(5.5)

Note: See Table I 2.9 for national data.
Values that are statistically significant are indicated in bold (see Americ A3).
Scattlink (appl) http://dx.doi.org/10.1787/888922H2308



[Part 1/1]

								Proficie	ncy leve	k						
	(few	Lovel 15 than 2.04 points)	(from to let	ed 10 262,04 in thus 4.25 points)	(from to le	el 12 114.71 n thus 7.47 points)	(from to le	rel 2 467.47 is than 0.15 points)	to le	el 3 460.18 is than 2.89 points)	from to les	rel 4 552.89 n than 5.61 points)	from to les	rel 5 625.61 n than 8.32 points)	(above	vel 5 658.32 points
	- 5	S.E.	- 5	S.L.	2.	3.2	5	5.1.	%	S.C.	%	S.E.	%	S.E.	1.5	5.0.
Adjudicated																
Belgium (Flomish Community)		(0.1)	3.4	(0.3)	9.7	40.89	18.7	42.70	27.2	(1.0)	26.7	(0.9)	11.1	(0.7)	1.5	80.40
Sour (Andaluse)	1.1	(0.40)	2.1	(1.1)	14.0	CLO.	28.1	(1.5)	29.2	(1.9)	11.5	(1.5)	2.5	(0.6)	0.2	(0.2)
Spain (Assgor)	1.4	(0.5)	3.8	(0.10)	12.3	(1.3)	260	(1.2)	32.0	(1.5)	20.5	(1.4)	5.6	(0.7)	0.4	(01.23)
Spain (Assurias)	2.0	(0.8)	3.2	40.50	11.0	(3.6)	22.4	(3.50	29.1	(1.7)	21.6	(1.2)	5.0	(1.1)	0.8	02.40
Soun (Baleuric Islands)	3.6	(0.8)	8.7	61.80	16.2	(2.1)	27.1	(1.2)	27.5	(1.2)	13.9	(2.0)	3.0	(0.8)	0.0	
South Basque Country)	0.6	(0.3)	3.5	40.60	11.5	60.80	24.4	30.95	34.1	(1.0)	20.5	(1.1)	4.8	10.40	0.3	(0.1)
Spain (Canary Mands)	3.7	(0.6)	8.0	(7.3)	12.4	(3.2)	20.4	(1,7)	25.9	(1.7)	12.4	0.40	3.1	(0.7)	0.4	(0.2)
Soun (Cartabra)	1.3	(0.4)	4.0	40.91	13.4	(1.3)	26.8	(9.7)	30.5	(2.0)	18.8	(1.6)	4.9	(1.0)	0.4	(0.2)
Scaln (Captile and Leon)	1.2	(0.4)	3.4	40.40	8.7	(3.2)	21.6	(1.4)	33.3	(1.4)	23.8	(1.2)	7.3	(1.1)	0.7	40.33
Scain Catalonal	0.6	(0.3)	3.5	(1.0)	9.1	0.40	20.8	0.7	11.9	(1.41	24.5	(2.0)	7.2	(1.0)	0.4	(0.3)
Spain (Couts and Mehlls)	9.2	(0.8)	15.9	41.29	21.9	(1.2)	23.8	(3.80	18.5	9.70	8.7	(D.B)	1.7	0.40	0.2	(0.7)
Spain (Calicia)	1.5	63.40	4.6	83.20	12.2	(1.3)	23.6	(1.2)	30.4	0.40	21.8	(3.5)	5.4	0.0	0.4	10.20
Soun La Robi	1.1	(0.4)	3.3	49.71	12.1	(1.2)	19.5	(1.5)	29.4	(1.6)	25.3	0.80	7.9	(1.3)	1.1	(0.5)
Spain (Madnd)	0.9	63.49	3.5	40.80	9.5	(1.3)	22.7	(3.5)	32.1	(1.7)	24.1	(1.5)	6.5	(1.1)	0.6	10.33
Sman (Marris)	1.1	(0.40	4.7	(2.2)	15.9	(2.2)	28.2	(1.7)	31.6	(2.1)	15.2	(2.0)	2.9	0.60	0.2	(0.1)
Spain (Navarre)	0.8	(0.3)	3.7	10.63	10.5	0.2	23.8	(3.4)	31.3	(1.41	22.5	0.50	6.2	(1.2)	0.6	10.33
United Kingdom (Scotland)	1.1	(0.2)	3.8	(0.5)	12.0	(1,1)	23.9	(1,3)	28.0	(1.2)	20.9	0.3)	8.7	(0.7)	1.6	(0.4)
Non-adiadicated																
Belowm Grench Community	16	K0.71	6.9	60 A)	13.1	(1.0)	18.0	(1,2)	23.5	(1.3)	22.6	0.30	10.2	n m	1.3	ID-41
Release (Compan-Spenione Community)	1.5	10.30	4.1	0.0	14.1	(3.2)	23.3	(2.1)	30.9	(2.1)	21.8	(1.6)	4.2	(0.8)	0.0	
Finland (Finnish Speaking)	9.3	(9.1)	1.3	10.33	6.3	10.80	16.5	(0.8)	30.4	(1.0)	39.3	(0.3)	13.1	(0.0)	1.2	10.30
Fanland (Swedish Speaking)	9.6	(0.3)	2.0	10.53	10.0	(1.0)	22.0	01.25	31.6	(1,2)	25.0	(1.3)	7.9	(0.5)	0.9	(0.4)
Italy (Provencia Abruzzo)	1.7	(1.0)	5.5	(1.1)	15.0	0.0	25.9	(1,2)	22.2	(1.8)	18.3	(1.5)	5.6	(0.5)	9.5	60.30
Italy (Provincia Autonoma di Bolgano)	1.6	(0.7)	5.2	(1.0)	12.7	0.40	24.3	3.49	29.3	(1.3)	19.5	0.0	6.2	(0.9)	9.7	(0.2)
Italy (Provincia Basilicata)	1.3	(0.5)	7.5	(1.2)	10.3	(LD)	26.3	(1,8)	26.5	(8,1)	15.8	0.5	4.0	(0.0)	0.3	(0.3)
Italy (Provincia Calabria)	3.2	(1.1)	12.9	41.90	21.4	(4.5)	26.8	0.00	22.8	(1.8)	10.2	(1.5)	1.7	(0.5)	0.0	c
Haly (Provincia Campania)	4.9	0.40	10.0	(2.3)	20.Z	(1.7)	26.2	(1,5)	26.9	(1,9)	11.1	(1.6)	2.1	ID.63	9.2	(0.1)
Haly (Provincia Emilia Romagna)	2.8	(0.9)	4.9	10.60	11.2	(3.3)	20.8	(3.8)	25.4	(0.8)	24.1	0.40	9.0	0.0	1.3	60.40
Italy (Provincia Friul) Venezia Giulia)	0.8	KG-30	3.2	(0.6)	30,4	(3.5)	18.1	(1,3)	28.7	(1,7)	27.0	(3.8)	9.9	(1.2)	1.3	(0.40
Italy (Provincia Lazgo)	1.2	(0.6)	6.2	41.40	16.5	(3.6)	24.5	(1.8)	25.5	CLBI	19.2	0.51	5.4	0.0	0.4	(0.7)
Italy (Provincia Liguria)	1.6	(1,1)	5.3	(2,2)	13.8	0.20	23.2	(1,8)	28.1	(2.1)	21.1	(1.8)	6.2	rr.m	0.8	40.30
Italy (Provincia Lombardia)	0.2	10.40	2.7	43.73	9.3	(1.3)	18.2	(1.5)	29.6	(1.9)	27.1	(1.9)	10.2	0.20	1.8	10.50
Baly (Provencia Marche)	1.4	10.70	5.4	(3.30	11.9	(2.3)	22.8	(1.5)	27.7	(2.1)	22.7	(1.8)	7.4	0.0	0.8	(0.4)
Italy (Provincia Molise)	2.3	(0.0)	6.7	40.80	16.3	(8.25	26.8	(3.8)	28.6	(1.7)	16.5	0.0	3.0	10.80	0.0	c
Italy (Provincia Piemonte)	1.6	(0.5)	5.0	(3.0)	13.6	(3.5)	22.2	(1.2)	27.3	(1.5)	22.5	(LB)	Z.2	(1.2)	0.8	40,33
Italy (Provencia Paglia)	2.0	10.80	5.4	(1.2)	13.0	(1,2)	23.7	01.70	29.7	(1.2)	19.9	(1.6)	5.2	(0.9)	0.6	E0.31
Italy (Provincia Sardegna)	2.8	(0.5)	6.3	(0.5)	16.9	(1.5)	22.2	(2.1)	25.8	(1.2)	15.2	(1.2)	3.8	(0.50	0.5	(0.3)
Italy (Provincia Sicilia)	7.2	(2.1)	10.8	(2.0)	17.8	(2.1)	26.1	(3.8)	23.9	(2.1)	12.6	(1.6)	3.4	(1.0)	0.3	69-20
Italy (Provincia Toscana)	1.8	10.50	5.3	40.50	13.4	(1.5)	21.7	(1,5)	26.9	(2.2)	23.3	(1.2)	6.9	(1.2)	0.5	(0.3)
Italy (Provincia Tiento)	1.1	10.33	3.8	80.20	12.0	(8.3)	20.5	(3.6)	27.6	(2.0)	23.5	(1.6)	10.3	11.51	1.1	(0.4)
Bahr (Provencia Umbria)	2.3	10.50	6.0	(1-60	12.7	(3.4)	21.1	CLE	28.2	(1.2)	21.7	IL40	7.6	(1.4)	0.6	(0.3)
Baly (Provincia Valle d'Aosta)	0.3	(0.20	2.1	80,70	9.4	(3.1)	21.6	(1.3)	31.5	(2.0)	24.3	0.5	9.1	(1.0)	1.2	(0.6)
Italy (Provincia Veneto)	0.9	10.53	3.4	60.50	11.3	0.25	20.2	(2.1)	31.4	(1.8)	23.9	(1.9)	8.1	(1,3)	0.7	60,31
United Kinadom England)	0.8	(0.7)	3.7	80.50	12.0	80.75	23.4	00.90	28.2	(0.9)	21.1	(1.2)	8.9	(0.8)	1.8	10.33
Uneted Kingdom (Northern Indand)	1.2	(0.6)	6.2	10.50	12.0	0.0	21.9	(1.4)	27.6	0.40	21.6	(LL)	9.5	(0.8)	2.0	(0.40
Urrited Kinadom (Wales)	1.4	63.40	5.4	40.70	15.1	(1.2)	26.1	(1.2)	28.0	0.0	12.2	(1.1)	5.2	mai	1.1	00.23

Note: See Table 1.2.10 for national data. Search feek. (ACCOM) https://de.doi.org/10.1787/888902341905



[Fart 1/2] Percentage of students at each proficiency level on the reading subscale reflect and evaluate by gender

Boys - Proficiency levels Level 1a Level 1b Level 2 Level 3 Level 4 Level 5 (from 262.04 to less than (from 324.72 to less than (from 667,47 nm 480, 16 from 552.85 from 625.61 to less than dess than to less than Level 6 to less then 134.73 402,42 532.8S 698,32 (above 658.32 Spain (Andalusia) Scalin (Acassor) 4.0 (1.0) 14.4 12.05 27.3 29.9 (0.8) 9.3 (0.3) Spain (Balearic Islando 11.2 10.5 25.8 (0.0) Spain (Basque Country) Spain (Canary Islands) 21.5 Spain (Cantabria) Snam (Cashle and Leon) (1.8) Spain (Catalonia) Spain (Ceuta and Mehlla) 0.0 Spain (Galicia) Spain (La Rioja) Spain (Murcia) (0.6) (1.3) 18.3 (2.7) 28.2 30.5 (2.0 | 13.9 (1.7) 0.0 26.3 United Kingdom (Scotland) (0.43) (0.8) 24.4 (1.5) 25.5 26.3 (1.4) 18.0 trm 12.6) Non-adjudicated Belgum French Community Belgium (Cerman-Speaking C Finland (Finnish Speaking) Finland (Swedish Speaking) Italy (Provincia Abruzzo) 20.3 Italy (Provincia Autonoma di Bolgano) Italy (Provincia Rasilicata): (0.8) 28.0 (0.3) (1,8) Italy (Provincia Campania) 14.1 18.8 (0.6) 0.0 Italy (Provincia Emilia Romagna) Italy (Provencia Friuli/Venezia Cindut Italy (Provencia Lazio) Italy (Provencia I laura) 8.0 19.7 25.8 0.30 0.0 Italy (Provencia Lombardia (2.8) 60.20 italy (Provercia Marche) (2.2) 6.6 (2.0) 35.7 27.7 0.4 26.1 (3.4) 17.1 4.8 0.3 (0.3) Italy (Provincia Molise) 0.0 Italy (Provencia Premont (3.1) 16.6 23.5 26.3 12.5 0.0 Italy (Provincia Puglia) Italy (Provincia Sirologna Italy (Provencia Sicilia) Haly (Provency Toscana) 2.6 (1.3) 17.9 17.5 0.3 (0.3) Italy (Provincia Teento) Italy (Provincia Umbrio) 2.2 23.0 25.0 18.2 4.8 (1.0) Italy (Provincia Valle d'Aosta) Italy (Provincia Versito) (0.8) 5.8 18.1 United Knodom (England) 0.0 United Kingdom (Northern Insland) 1.9 (1.1) 6.2 (1.5) 14.8 (1.3) 23.4 0.00 2.2 (a.a) a.c (a.a)

Note See Tible 12.11 for national data Searchine (MD) trapping on philosophysics

United Kingdom (Wales)

Table S.Lk



Cirls - Proficiency levels

	(fee 25	Level 18 s than 2.04 points)	(from to le	el 18 262.04 II than 4.75 points)	(from to le	rel 1a 1314.75 is then 7.47 points)	(from to let	rel 2 467.47 is then 0.15 points)	from to les	vel 3 480.18 is than 2.89 points)	from to le	vel 4 552.89 sc than 5.61 points)	from to le	vel 5 625.61 st than 6.72 points)	(above	vel 6 698.3 points
	%	S.E.	%	S.E.	76	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E
Adjudicated																
Belgum (Flemsh Community)	0.5	(0.2)	2.4	(0.4)	7.4	(1.0)	163	(8.3)	263	0.6	29.8	0.49	13.6	(1.0)	2.6	10.4
Spain (Andalusia)	2.8	(0.9)	5.6	(7.3)	12.9	(2.2)	283	(2.3)	31.4	(3.0)	15.4	(2.4)	33	(0.8)	0.0	
Spain (Aragon)	0.3	(0.3)	1.6	(0.6)	10.1	(7.49	20.6	(2.1)	34.1	(2.1)	24.9	(2.0)	7.8	(1:1)	0.6	10.3
Scorp (Asturas)	1.1	(0.7)	4.2	10.95	2.9	(2.43)	20.6	(2.3)	29.8	(2.3)	25.1	(2.2)	83	(1.5)	0.6	10.6
Scoln (Raleuric Islands)	2.0	10.20	6.4	(1.7)	13.9	12.71	25.4	(2.5)	29.5	(2.9)	154	(2.7)	42	(1.2)	0.0	
Sgain (Hasque Country)	0.2	(0.1)	1.7	40.40	7.0	(0.4)	22.3	(1-2)	37.2	(3.6)	24.9	(7.6)	6.4	(0.7)	0.4	(0.2
Spain (Canary Islands)	2.5	10.61	7.4	0.0	16.6	(2.1)	25.8	(2.3)	284	(1.9)	14.9	(21)	4.0	U-40	0.4	(0.3
Spain (Cantabria)	0.6	(0.40	2.2	10.40	9.7	(3.4)	24.5	(2.4)	33.4	(2.5)	22.3	(2.3)	6.9	(1.4)	0.4	10.4
Spain (Castrle and Leon)	0.5	(0.3)	1.7	10.73	6.4	(1.3)	18.0	(1.8)	35.1	(2.3)	29.2	0.0	8.3	(1.4)	0.8	40.4
Spain (Catalonia)	0.2	(0.3)	2.1	(1.0)	5.7	(1.3)	18.3	(2.7)	33.4	(2.0)	29.7	(2.3)	9.9	0.0	0.6	40.5
Spain (Ceuta and Mehlla)	5.3	10.60	13.4	(1.5)	22.7	(7.6)	25.9	(2.3)	20.1	(2.0)	10.3	(1.7)	2.2	(0.6)	0.2	40.2
Spain (Calicia)	0.7	10.30	2.8	(0.6)	9.1	(3.3)	21.9	(1.8)	33.4	(2.4)	25.1	(2.4)	6.6	(1.6)	0.6	10.3
Spain La Riolai	0.6	(0.40	1,7	40.80	9,7	(1,5)	16.4	(1,7)	30.1	(2.6)	29.1	(2.8)	10.5	(1.6)	1,8	10.7
Souri (Madini)	0.6	10.40	12	(0.6)	5.7	(8.1)	19.4	(2.3)	34.5	(2.3)	28.7	(2.0)	A9	(1-4)	1.0	10.6
Scorn (Murcia)	10	(0.6)	3.7	(1.4)	13.5	(2.2)	28.2	(2.2)	33.2	(2.8)	16.5	(2.6)	3.7	(1.0)	0.2	10.2
Span (Navare)	0.5	(0.4)	1.9	10-50	62	(1.3)	21.0	(2.3)	33.4	(2.5)	27.2	(2.3)	9.2	(1.6)	0.6	10.5
United Kinadom Scotland	0.7	(0.5)	2.1	40.5)	97	(1,2)	22.2	(1.8)	29.7	(1.8)	23.7	(1.5)	10.0	(1.1)	1.8	10.5
		,,,,,	-	- Janes		11001		(1111)	1	(111)	1		1	(,	1	10.0
Non-adjudicated								_								
Belgram (French Cornervancy)	2.2	(0.7)	5,1	(1.0)	11.9	(11)	18.5	(1:4)	24.8	(1.5)	24.7	(2.0)	11.2	(1.6)	1.6	(0.5
Belgium (Cerman-Speaking Community)	0.8	(0.4)	1.8	(0.7)	16.7	(1.5)	20.6	(3.0)	33.1	(3.7)	26.7	(2.8)	5.9	(1-4)	0.0	
Finland (Finnish Speaking)	0.1	(0.1)	0.4	(0.2)	2.4	(0.5)	9.6	(0.8)	281	(1-7)	37.1	(1.5)	190	(1.3)	3,2	10.5
Finland (Swedish Speaking)	0.0	C	0.5	(0,4)	4.4	(0.5)	15.9	(1.6)	33.8	(2-6)	31,8	(2.5)	12.1	(1.7)	1,5	10.9
Italy (Provincia Abruzzo)	0.9	(0.7)	3.1	(1.4)	9.3	(1.5)	22.5	(3.1)	31-6	(2.6)	25.3	(2-8)	6.7	(1.8)	0.8	(0.5
Italy (Provincia Autonoma di Bolzano)	0.7	(0.5)	3.4	(1.40)	7.8	(1.3)	21.2	(1.8)	33.4	(1.8)	24.3	(1.4)	7.8	(1-0)	1.2	(0.4
Italy (Provincia Basilicata)	0.5	(0.4)	3.5	(1.1)	13.7	(1.7)	24.5	(2.1)	29.8	(2.4)	22.2	(2.6)	5.6	(16)	0.0	
Italy (Provincia Calabra)	2.0	(0.9)	5-5	(1.2)	15-7	(1.5)	301	(3.0)	28.9	(2-6)	15.2	(2-4)	2.5	(0.8)	0.0	
Italy (Provincia Campania)	2.4	(1.1)	4.7	(1.5)	14.5	(2.6)	27.0	(2.5)	32.7	(2.5)	15.5	(2.4)	3.0	(1.2)	0.3	40.2
Italy (Provincia Emilia Romagna)	2.1	(0.8)	4.7	(1.3)	9.5	(1.8)	18.5	(2-1)	24.6	(2.4)	27.4	(2.6)	11.3	(1-7)	2.0	(0.8
Italy (Provencia Fritali Venezia Cindu)	0.0	c	1.4	(0.9)	4.7	(1.5)	13.9	(2.1)	30.0	(2.2)	32.9	(2.8)	14.5	(2:1)	2.4	40.8
Italy (Provencia Lazio)	0.2	(0.3)	3.4	(1.7)	10.8	(2.4)	21.4	(2.0)	30.9	(2.7)	24.9	(2.3)	7.7	(1.8)	0.5	10.6
Italy (Frowncia Liguro)	0.0	c	2.1	(0.8)	6.9	(1,4)	20.2	(2.3)	33.0	(2.2)	27.8	(2.6)	8.5	(1.6)	1.3	10.7
Italy (Frowncia Lombardia)	0.2	(0.2)	1.1	(0.7)	5.9	(1.6)	12.6	(2.1)	28.5	(2.6)	33:1	(2.8)	15.4	(2.8)	3.3	(1.1
itely (Provences Marche)	1.1	(0.6)	3.8	(1.0)	7.4	(1.2)	17.0	(2.2)	29.6	(2.4)	29.3	(2.6)	10.5	(18)	1.4	(0.6
Italy (Provincia Molise)	0.8	(0.4)	3.5	(0.0)	11.6	(1.5)	253	(2.1)	35.1	(3.1)	20.6	(2.3)	3.0	(1.1)	0.0	
Italy (Provencia Premonte)	1.0	(0.5)	3.0	(1.1)	10.5	(2.2)	20.7	(2.1)	283	(2.5)	25.2	(2.7)	9.8	(1.9)	1.3	10.6
Italy (Provincia Puglia)	0.6	(0.3)	2.7	(0.9)	9.4	(1.6)	21.4	(2.3)	32.1	(2-2)	25.1	(2-4)	7.8	(1.7)	0.9	(0.5
taly (Provincia Serdogno)	07	(0.5)	3.4	(1.2)	12.5	(2.1)	26.3	(2.7)	30.4	(2.5)	20.4	(2.2)	5.5	(1.4)	0.8	(0.4
taly (Provencia Sicilia)	2.9	(5.4)	7.5	(2.8)	14.6	(2.6)	26.0	(2.5)	29.2	(3.2)	15.5	(2.8)	4.1	(1.5)	0.3	10.3
taly (Provincia Toscana)	0.9	60.57	2.8	(1,3)	8,4	(1.7)	18.1	(2.3)	29.8	(2.7)	29.7	(2.6)	9.5	(2.0)	0.8	60.5
taly (Provincia Tioress)	0.6	(0.4)	1.4	(0.7)	8.0	(1.5)	16.0	(2.1)	29.2	(2.6)	30.4	(3.0)	13.0	(2.6)	1.3	10.6
taly (Provency Umbrya)	0.6	10.40	3.0	40.50	9.5	(1.4)	193	(2.3)	313	(2.6)	25 p	(2.1)	9.8	(2.3)	1.0	10.6
taly (Provincia Valle d'Acuta)	0.0		0.8	60.53	7.9	(8.5)	10.1	(2.1)	33.2	(2.4)	27.3	(2.2)	10.6	(1.4)	1.9	10.5
taly (Provincia Versito)	0.0	6	1.0	60,60	5.8	(1.5)	17.2	(2.2)	33.7	(2.3)	29.4	(2.7)	11.5	(2.1)	1.1	10.6
United Krigdom (England)	0.5	(0.2)	2.5	(0.5)	9.5	80.55	22.0	(1.4)	29.2	(1-2)	26.1	(1.7)	10.0	(1-0)	2.3	4D.5
Ureted Kinadom (Northern Ireland)	0.5	(0.3)	2.3	(0.4)	9.5	(1.4)	205	(1,8)	29.7	(1.8)	23.8	(1.6)	11.2	(1:1)	2.6	10.7
United Kriedom (Wales)	0.5	(0.2)	3.4	10.60	12.2	(1,0)	263	(1.4)	29.5	(1.4)	19.6	(1.7)	7.1	(0.5)	1.4	(D.4

Note See Table 12.11 for national data Seast.fok @## http://dx.doc.org/10.1787/88893234330



[Part 1/1] Table S.I.I subscale reflect and evaluate

Table S.I.I	sub	scale	e ret	fect.	and	eva	wate	•														
		All sa	udest			Ce	nder d	illiero	nces							Perce	ntiles					
	M4			dard ation	Bo	iys	G	irk		rence - G)	5	th	10	юh	21	eh.	71	ith	94	th	91	ith
	Mean	S.E.	S.D.	5.E.	MC48	5.E.	Meas	S.E.	di.	S.E.	Score	S.E.	Score	S.E.	Score	S.E.	Score	S.E.	Score	S.E.	Score	S.E.
Adjudicated																						
telgram (Hemain Community)	517	(2.5)	32	(2.5)	502	0.30	223	0.2	-31	(6.3)	339	(9.7)	380	E5,623	454	0.8	355	0.33	0.35	DL35	662	25.6
Spoin (Vedakusa)	461	8.30	36	(7,3)	450	8.3	472	39,75	-22	0.0	285	02.0	330	GLID.	400	(7.30	527	0.50	574	19,13	662	(7.1
Speen (Aragon)	493	6520	32	2.70	473	55.73	514	8.2	-41	05.20	331	03.59	371	(7,7)	404	(2.0)	555	(6.50)	605	15.00	632	65.1
ipvin (Suturtas)	491	(5.2)	101	12.40	475	85.62	507	5.75	-31	(6.2)	310	00.0	352	(7.5)	427	(5.72)	563	(1,3)	612	85.50	639	45.5
Span (Balsonic Islando)	458	(7.3)	101	(2.8)	439	2.6	475	25.03	-39	(5.1)	278	0.79	319	(11.5)	395	0.60	530	(6.5)	551	15.40	609	15.6
Sparn (Hasque Country)	495	0.0	44	0.0	475	65.00	514	2.5	-28	0.9	340	0.79	379	(5.9)	441	6.0	554	0.60	500	D.40	625	0.6
Spain (Carrary Islands)	453	(4.9)	100	0.30	439	(5.2)	465	SH	-29	(4.9)	278	0.73	320	8570	357	8.0	523	640	577	17.30	610	012
Spain (Cartobna)	487	(4.2)	91	(2.8)	409	85.35	506	24.58	-37	6.0	332	0.9	367	6530	429	0.30	550	65.29	601	15.20	628	(7.5
Spain (Castile and Leon)	507	(5.2)	52	0.30	435	(Z,0)	525	5.0	-36	6.3	339	D3.39	350	(93)	453	(5.3)	569	5.5	617	15.7)	645	15.3
Spain (Catalonia)	508	15.02	89	(2.9)	489	16.00	527	5.6	-38	6.0	344	02.60	390	(33.1)	453	(9.1)	570	p. 30	614	(6.1)	641	6.1
Spain (Ceuta and Mehlla)	412	2.0	213	(2.1)	395	64.25	429	0.3	-35	5.8	224	97)	268	(5-30	334	(4.1)	495	6(1)	536	(5.00	590	46.6
Spain (Calicia)	491	(4.7)	95	2.49	-04	15.6	939	54.59	-34	64.83	321	0.5	363	(7.8)	434	(5.6)	560	(4.9)	607	14.50	631	45.5
Spain (La Ricia)	506	(2.5)	96	0.41	487	84	525	650	-38	6.9	339	73	375	(6.1)	443	5.01		8.7	622	55.59		5.6
Spain (Madrid)	906	MA	89	an	450	5.9	06	149	-44	6.7		03.69		(7.8)	450	(5.1)	966	6.20	611	15.86	637	SB
pain (Marca)	475	(5.7)	82	Q m	456	56	403	5.0	-17	(5.R)	327	01.5	359	0.50	415	(0.2)	535	(5.1)	502		610	85.4
Spain (Navorre)	501	0.0	90		412	86		6130	.39	6.8	342	0.5	380	G(9)	440	6.2	565	(5.1)	613	15.30	639	5.9
United Kingdom (Scotland)	501	0.40		0.60			515		-28		335	62		540		(4.0)					661	
Non-adjudicated	-		-	-	-		-	-	-	-	-		-				-	-	-	-	-	-
Selgram Greech Community	491	(4.7)	117		428	9.2	505	(5.1)	-27	100.60	289	01.69	331	(92)	414	12.05	579	(5-0)	632		660	6.2
Selgum (German-Speaking Community)	487	9.0	57	0.9	455	14.9	938	3.9	-42	6.9	333	7.60	365	6.0	428	(5.2)	556	0.80	600	15-00	622	62
Inkard (Finnsh Speaking)	537	12.0	82		908	0.8	967	0.9		0.6	386	(5.2)	421	0.8)	489	0.39	999	0.89	60			
Finland (Swedish Speaking)	512	2.0	A6	0.9	481	66.77	50	(3.2)	-61	64.80	363	(5.8)	396	(8.8)	455	B.A	574	0.0	621	14.50	650	50
Italy (Provincia Abruzzo)	478	(5,0)	99	56	451	6.0	936	52	.55	65.23	307	01.6	347	(89)	414	7.0	549	6.0	601	15.40		
Italy (Provincia Autonoma di Bolzano)	488	0.31	56	0.61	454	85.73	512	6.11	-48	GB			355	(7.7)	425	(5.3)	557	0.5	611	P\$.13	640	61
Italy (Provincia Basilicata)	458	(540			464	07.08		5.8		(7.7)				19070	470	(7.5)		64 80		5.6	621	
taly (Provincia Calabria)	438	(5.6)	38		437	0.6	469	5.9		0.9		02.0		63	367	9.7	510	6.5	564	(7.6)	594	07
taly (Provincia Campania)	442	(7/8)			436	8.0		5.9		OB		(TBO)		(32.8)		920			568	(7.6)	598	86
Italy (Provincia Emelia Romagna)	498	(5.2)	109	6.71	402	6-23	514	69.30		Oli		09.9		(12.2)	429	(7.30	580	14-73	627	(7.66	656	65.5
taly (Provincia Friuli Venezia Glulia)	514	5.0		0.25	485	5.8		6.0		05.20		00.9		(10.6)	453	(7.49		61,70		H.23		0.2
Ishy (Provincia Lazio)	478	64.20	99	(2.7)	40	15.61	938	(7.2)		000		(142)		8-0	408	(5.60	553	(5.7)	604	15.25	631	6.9
taly (Provincia Liguria)	490	19.00	98	(6.7)		048		54		040		23.9		120.D				15-R0	611		639	
taly (Provincia Lombardia)	521	(6 T)	95	0.0	495	68	CH	0.9		09		01.0	392	69	463	10 60	588	(2.5)	635		664	63
taly (Provincia Marche)	496	(2,30		61.60		dia		54.51		OZ.O		040		f15,20		f12,25		15.20		15.00	645	
taly (Provincia Molise)	458	0.7	95	0.9	447	14.65	691	87		(46)		(12.4)		81)	400	(4.7)	537	(4.8)	585	16-35	607	(7.2
taly (Provincia Mone)	494	(6.2)		(6.2)	475	82	512	6.3		03.0		02.79		0130	426	5.25			617		644	
Italy (Provencia Pionices)	487	(5.0	38	(5.0)	461	03	512	5.8		0.9		059		(13.2)	424	6.0	556	(5.8)	606	5.6	634	05.6
taly (Provencia Pugita)	455				436			5.6														
	460	(4.6)		0.2			494			93.53		03:0		(ILI)		(5.2)		(5.6)		15.35		
tały (Prowncia Sicilia)		8.0	115	22		(31.3)		CO-69		all		25.29		(19.2)		13.5	524	84	581	10.00		83
taly (Provincia Toscana)	492	(4.8)		0.0	457	(7.3)		(5.3)		0.7		02.0		(LLD	424				614			
taly (Provencia Trento)	508	0.5	22		485	5.3	533	2.0		CERNI	336	2.0		E-30	440	(5.5)	581	R.B.	632	(5.5)		45.4
taly (Provencia Limbria)	490	D.All		(4.5)	965	22		SE		93.2		02.35		01.0		12-69		H-6)		55.50	645	
taly (Provincia Valle d'Aceta)		0.0	20	2.11	504	HAR	529	0.5		0.21	369	33.33	399	0.30	456	(5.6)	578	(6.2)	630	45.05	658	20,0
taly (Provencea Wendo)	506	0.7	33		478	22.30	223	238		(02.3)		(121)		(ILA)	445	(8.3)				\$7.40	647	5.5
United Kingdom (England)	504	0.05		0.81	491	班段	517	9.7		0.8	339	6.6	375	(8.3)	438	0.25	573	65,20		HAD	661	0.2
United Kingdom (Northern Inskind)	504	(6.5)			437	8.6		(5.3)		CHALL		02.7		(5.7)		(5.5)		0.2)		18.20	665	
United Kingdom (Wales)	483	0.8	97	0.89	468	94.5	498	0.6	-31	0.4	319	7.3	356	(5.2)	418	(5.50	550	162	607	(4.6)	640	412

Note: See Table 1.2.12 for national data.
Values that are statistically significant are indicated in bold (see Annex A3).
Smattack (Significant Significant Signif



[Part 1/1]

								Proficie	ncy leve	95						
	(few	Lovel 16 than 2.04	(from to let	el 18 262,84 n thus 6,25	(from to le	el 1a 334.73 n thun 7.47	(from to le	rel 2 467,47 is thun 0.18	(from	vel 3 480.18 ss than 2.89	from to let	rel 4 552.89 n than 5.61	from to les	rel 5 625.61 n than 8.32	Grisson	vel 5 658.33
		points)		points)		points)		poists)		points)		points)		points)		points
	25	S.E.	3	3.2	5	3.2	%	5.0.	%	s.t.	%	S.E.	%	S.E.	5	5.0.
Adjudicated			_													
Bolgium (Flomish Community)	0.4	(0.1)	2.4	(0.4)	10.7	(0.4)	20.9	(2.2)	26.5	93.35	26.3	(0.8)	11.5	(0.25)	1.2	(0.3)
Spain (Andalusia)	2.5	10.00	2.2	(1.1)	15.8	(2.3)	28.2	(1.3)	30.7	(1.9)	11.2	(1.2)	2.3	(0.6)	0.0	c
Spain (Aragon)	0.2	10.40	3.4	(3.4)	10.4	(1.3)	263	(1.2)	33.1	(1,2)	22.4	(1.8)	5:0	(0.2)	0.6	(0.7)
Spalin (Assurias)	1.5	(0.5)	5.0	(0.8)	11.5	(1.1)	23.4	(2.2)	29.4	(1.5)	21.4	(1.4)	7.2	(1.1)	0.6	(0.3)
Spain (Balearc Islands)	3,0	50.20	Z.3	(0.5)	16.8	(1.5)	27.2	(1.5)	28.5	92.00	13.9	(1.8)	2.7	(0.8)	9.1	89.13
Spain (Barque Country)	a.c	(0.7)	3.6	(0.0)	10.7	(03.20)	24.2	(07:20)	34.4	CLAD	21.2	(0.3)	4.8	(0.5)	0.4	(0.1)
Spain (Conory Nands)	3.1	(0.0)	8.5	(1.3)	12.5	(1.2)	26.2	(1.7)	26.2	(1.5)	13.0	(1.4)	2.5	(0.0)	R.1	(0.1)
Spain (Cantabra)	0.2	(0.4)	4.7	(DLID)	12.1	(3.5)	24.5	(1.5)	32.5	(2.6)	19.5	(1.5)	5.2	(0.2)	0.4	(01.2)
Spain (Cashir and Leon)	0.5	(0.3)	3.1	\$0.63	8.8	(1.2)	21.2	(9.2)	35.2	(1.5)	24.2	(1.5)	4.Z	(1.0)	0.5	(0.3)
Spain (Catalona)	0.6	(0.2)	3,1	92	2.4	(1.40	26.3	0.80	11.5	(2.1)	23.2	[1,9]	5.4	(0.9)	9.4	(0.2)
Spain (Ceuta and Mehilla)	ZZ	63.40	15.8	0.40	23.9	03.40	25.7	(1.2)	18.7	(1.3)	5.4	(0.9)	3.6	(0.4)	23	(0.1)
Spain (Galicia)	1.1	(0.2)	4.7	\$3.40	13.3	(1.4)	24.0	(1.5)	33.8	(1.3)	19.9	0.40	2.0		0.2	(0.2)
Span (La Roja)	1.1	(0.5)	3.5	(1.0)	33.8	(1.2)	21.2	(1.5)	30.2	(2.0)	24.4	(1.6)	4.2	00.99	0.6	(0.3)
Spain (Madrid)	0.6	\$3.30	2.2	63.60	9.5	(7,40)	22.2	(1.5)	36.1	(1.3)	23.6	0.5	6.5	(3772)	0.8	10.40
Spann (Marca)	2.0	(0.3)	3.3	(0.7)	14.4	(3.4)	27.5	(1.4)	33.6	(1.2)	16.9	(1.6)	3.5	(0.5)	0.3	(0.2)
Spalin (Navarre)	0.6	(0.3)	3.0	82.70	11.2	(3.1)	24.4	(2.5)	33.8	(1.5)	22.2	0.40	5.2	TUTED.	2.0	(0.3)
United Kingdom (Scotland)	1.0	(0.2)	4.0	(0.5)	12.5	9.8	25.2	(1,1)	28.4	(0.9)	19.4	(1.1)	8.1	(0.7)	1.3	10.20
Non-adradicated																
Jeloum French Community		10.60		10.80	14.6	(1.1)	20.2			(1.2)	21.9	a n	8.7	(0.7)	10	D.31
Belgum (German-Spenlong Community)	0.4	49.30	4.1	(1.0)	13.8	(I.D	22.8	0.8	25.6	61.50	23.0	0.20	6.5	(1.2)	0.6	92.40
Finland (Finnish Sceniane)	0.2	(0.1)	1.5	10.21	6.7	40.59	16.6	0.0	30.2	(0.8)	30.6	00.81	13.4	(0.2)	1.5	(0.2)
Finland (Swedish Speaking)	0.1	(0.2)	2.4	60.50	10.5	(1.2)	23.8	(1.5)	30.4	(1.9)	24.4	0.89	7.7	0.00	0.5	(01.2)
(taly (Provencia Abnazza)	0.9	(0.6)	5.0	10.40	14.3	(1.3)	25.5	(1.86	29.4	(1.6)	28.2	(1.6)	4.3	(0.8)	0.3	69.30
Italy (Provincia Autonoma di Bolgano)	1.5	(0.6)	4.2	(1.0)	12.3	(3.1)	25.1	0.60	29.6	0.40	20.7	0.0	5.2	0.6	0.4	(0.2)
Italy (Provincia Basilicata)	0.6	(0.5)	5.2	(1.3)	15.0	0.71	28.2	0.0	28.8	0.0	17.2	0.30	1.9	(0.6)	0.3	(0.2)
Italy (Provincia Calabria)	2.1	(0.9)	8.6	(1.5)	20.8	0.40	28.1	(2.4)	26.4	(2.2)	11.2	0.4	2.1	(0.5)	0.0	
Italy (Provincia Campania)	2.6	(1,2)	8.3	(0.5)	19.2	(1.40	27.0	(2.2)	26.6	(0.3)	13.5	(1.9)	2.7	(0.7)	9.7	(0.2)
Haly (Provincia Emilia Romagna)	1.3	(0.4)	4.5	40.60	10.7	(3.7)	21.2	(1.5)	25.6	(1.6)	25.B	0.40	10.0	(0.9)	0.9	(0.4)
Italy (Provincia Friul) Venezia Giulia)	1.1	10.60	2.8	0.60	9.5	(3.6)	18.5	(1,4)	29.0	(3.8)	27.0	(1.5)	9.8	£1.30	3.1	(0.4)
Italy (Provincia Lazio)	0.2	40.30	5.6	(1.1)	15.9	(1.50	24.5	(0.5)	27.8	(1.3)	20.0	0.30	5.1	(0.9)	0.3	01.73
Italy (Provincia Liguria)	1,3	13.00	4.2	(1,5)	11.5	(1,7)	22.6	(1.5)	31.2	(2,4)	21.6	(1.5)	6.6	II.O	0.5	40,33
Italy (Provincia Lombardia)	0.2	10.40	2.4	80.20	8.5	(1.0)	17.3	(1.8)	31.1	(1.9)	29.1	(2.0)	9.8	0.0	1.0	(0.3)
Italy (Provincia Marche)	0.2	10.5)	4.2	(3,30	11.9	(2.3)	22.4	(1.5)	29.6	(2.2)	23.1	(2.0)	2.6	DL30	0.6	(0.3)
Italy (Provincia Molise)	3.1	10.40	5.6	(0.5)	15.5	(0.25	27.9	(1,2)	30.1	0.0	12.1	(1.8)	2.2	(0.6)	0.0	c
Italy (Provincia Piemontei	1.0	10.53	4.5	80.80	12.8	(3,6)	21.7	(1.6)	28.6	(1.9)	22.7	01.50	8.0	DL30	0.2	42.33
taly (Provencea Pagliss)	0.8	10.40	3.9	40.60	12.8	(3.5)	24.1	(1.9)	32.3	(1.9)	21.6	(2.1)	4.3	n.n	0.2	D.21
Italy (Provincia Sardegna)	1.6	(0.6)	5.4	40.90	16.9	0.4	25.1	(1.8)	27.1	(1.8)	16.2	0.40	44	n.m	0.2	10.20
Italy (Provincia Sicilia)	3.6	01.50	7.5	0.5	19.0	(2.7)	25.9	(2.2)	26.7	(2.2)	14.4	OLB)	2.9	(8.0)	0.0	
taly (Provincia Toscana)	1.2	10.40	5.4	(1.2)	12.5	(1.3)	22.0	(IL9)	28.4	(2.5)	23.9	(1.9)	6.2	(0.7)	0.4	40,30
taly (Provincia Tienso)	0.9	10.33	3.5	(0.6)	10.4	(0.1)	20.8	(1.2)	29.2	(1.7)	24.7	(1.9)	9.7	0.0	0.8	10.33
taly (Provencia Limbras)	1.4	(0.5)	6.0	(1.3)	12.7	(1,5)	21.0	(1.6)	28.4	(1.9)	23.0	(1.5)	6.9	(1.0)	0.6	(0.3)
Bahr (Provincia Valle d'Aosta)	0.2	(0.7)	2.7	(0.6)	2.7	(1,3)	20.7	(3.8)	32.2	2.0	26.1	2.0	9.5	0.0	0.9	(0.5)
Italy (Provincia Veneto)	0.8	80.40	3.7	(1-0)	10.3	(1.2)	20.8	(2.0)	32.2	(1.8)	24.3	(1.8)	Z.1	(1.0)	0.9	(0,3)
United Kinadom (England)	1.1	40.30	44	10.50	143	40.60	24.8	00.95	27.9	(0.9)	19.0	(1.1)	7.2	(0.6)	1.3	10.33
Uneted Kingdom (Northern Indiand)	1.0	(0.5)	4.6	10.50	12.6	(1.3)	24.2	(8.2)	26.5	(3-4)	21.0	O.D	8.6	m.e	1.2	(0.3)
United Kingdom (Wales)	15	40.30	5.0	40.60	16.6	(1.1)	27.8	(1.4)	22.1	(1.2)	15.9	0.91	45	m 6)	0.6	m 71



[Part 1/2] Percentage of students at each proficiency level on the reading subscale continuous tex by gender

Boys - Proficiency levels Level 1b Level 1a Level 2 Level 3 Level 4 Level 5 (from 262.04 to less than (from 324.72 to less than (from 667,47 nm 480, 16 from 552.85 from 625.61 to less than dess than to less than to less than Level 6 to less than 134.71 402,42 400,10 532.8S 698,32 (above 658.32 Spain (Andalusia) Spain (Acassor) 5.8 (1.0) 12.3 (1.9) 27.6 Spain (Balearic Islando 18.3 (1.46 Spain (Rasque Country) Spain (Canary Islands) 19.8 1.9 0.0 Spain (Cantabria) Snam (Cashle and Leon) (2.4) Spain (Catalonia) Storn Kenta and Mehlla 18.7 Spain (Galicia) Spain (La Rioja) Spain (Murcia) 4.3 (0.8) 36.4 (2.2) 29.4 31.9 (2.2) 14.6 0.0 United Kingdom (Scotland) (0.43) (0.5) 35.2 (1.1) 26.2 26.2 m.50 10.40 Non-adjudicated Belgum (French Community) Belgium (Cerman-Speaking C Finland (Finnish Speaking) Finland (Swedish Speaking) Italy (Province Abarger) 19.5 (2.4) 0.2 Italy (Provincia Basilicata) (0.5) 20.6 30.7 0.0 0.0 Italy (Provincia Campania) 11,6 (2.8) 28.3 9.0 1.8 (0.2) Italy (Provencia Emilia Romana) Italy (Provencia Friuli-Venezia Cindu 40 30 Italy (Provencia Lazio) Holy (Provencia I laurea) 7.0 15.5 26.6 28.4 15.8 0.0 Italy (Provencia Lombardia (2.9) italy (Provercia Marche) 0.8 63.23 5.5 15.0 0.8 27.3 28.0 (3.4) 17.9 (2.5) 4.6 0,0 c Italy (Provincia Molise) 0.0 Italy (Provencia Premont (0.0) 28.3 12.6 (9.3) Italy (Provincia Puglia) Italy (Provincia Sirologna Italy (Provencia Sicilia) Haly (Provency Toscana) 24.9 0,0 Italy (Provincia Teorio) Italy (Provincia Umbrio) 16.8 23.3 (2.0) 25.4 18.1 Italy (Provincia Valle d'Aosta) 0.0 Italy (Provincia Versito) 6.0 25.5 18.3 0.0 United Knodom (England) United Kingdom (Northern Insland) 16 (0.9) 52 (1.5) 35.2 (2.0) 25.6 (2.0) 23.8 9.1) 18.0 (1.1) 1.6 (0.6) United Kingdom (Wales)

Table S.Ln



[Part 2/2] Table S.I.n by gender

Cirls - Proficiency levels

	(fee	Level 18 s than 2.04 points)	from to k	el 16 262,04 si than 4,75 pointsi	from to les	el 1a 334.75 is then 7.47 points)	(feam to les	vel 2 447.47 is then 0.15 points)	from to les	rel 3 460.16 is than 2.89 points)	from to le	vcl 4 552,89 sc than 5.61 points)	from to le	rel 5 625.61 is than 8.32 points)	Jahovi	vel 6 ose.3: pointsi
	%	S.E.	5	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
Adjudicated																
Belgum (Flemsh Community)	0.2	(0.1)	14	(0.4)	8.1	(0.5)	187	(3.4)	27.5	(1.4)	29.1	(1.2)	13.6	(1.1)	1,5	(0.4)
Spain (Andalusia)	17	(0.9)	5.5	(1.3)	13.3	(2.0)	28.3	(2.1)	32.5	(3.0)	15.7	(1.9)	2.9	(1.0)	0.0	- 0
Spain (Aragort)	02	(0.2)	0.9	(0.5)	8.5	(1.7)	20.9	(2.4)	34.7	(2-7)	27.8	(2-2)	6.0	(1.0)	0.5	(0.3)
Spain (Asturas)	1.0	(0.6)	33	£1.40	9.5	(149	21.6	(2.5)	303	(2-3)	24.6	(2.1)	9.0	(1-6)	0.6	(0.4)
Spain (Balearic Islands)	1,7	(0.8)	4.6	(7.1)	15.3	(2.2)	25.7	(2.5)	31.7	(2.9)	17.D	(2.5)	3.8	(1.2)	0.0	0
Spain (Basque Country)	0.1	(0.1)	1.4	(0.4)	6.3	(9.7)	21.5	(1.2)	38.0	(1.1)	25.2	(1.2)	6.5	(0.0)	0.6	(0.2)
Spain (Canary Islands)	1,7	(0.9)	7.0	(7.9)	14.6	(1.5)	26.7	(2.3)	294	(2.0)	154	(2.3)	3,1	(1-2)	0.2	10.23
Spain (Contabria)	0.0	c	2.5	(9.7)	8.4	(1.4)	22.8	(2.1)	35.1	(2-5)	23.5	(2.1)	7.2	(7.30	0.3	(0.3)
Spain (Castrle and Leon)	0.5	(0.40	1.3	(0.6)	6.4	(1.2)	17,9	(1.6)	36.4	(2,0)	28.5	(2.2)	8.2	U 40	0.8	(0.4)
Spain (Catalonia)	9.4	(0.3)	1.3	(0.7)	6.5	(1.2)	22.3	(2.0)	36.1	(2.0)	27.5	(2.4)	7.3	(1.2)	0.6	(0.4)
Spain (Ceuta and Mehlla)	4.7	(0.9)	13,7	(1.7)	24.3	(2.2)	247	(2.2)	20.6	(2.1)	19.1	(1.7)	1,8	(0.7)	0.0	C
Spain (Gallicia)	0.5	10.30	2.2	49.73	9.6	(1.9)	23.3	(2.0)	34.5	(1.8)	22.8	(1.9)	6.7	[1 30	0.3	49.30
Spain (La Riola)	0.4	40.30	2.3	40.99	8.5	(3,4)	17.5	(1,8)	32.4	(3.4)	288	(2.7)	8.9	(1.5)	1,1	40.50
South (Madini)	0.1	(0.3)	1.2	(0.6)	6.0	(3.1)	18.7	(2.1)	36.0	(2.4)	282	(2.2)	84	(2.0)	1.2	10.7
Scorn (Murcia)	0.5	(0.3)	2.4	(1.0)	12.4	(2.1)	25.5	(2.2)	353	(2.3)	19.1	(2.2)	4.4	(1.5)	0.3	103
Spain (Navare)	0.3	(0.3)	1.4	0.60	7.1	(8.1)	22.6	(2.1)	32.6	(2.5)	27.0	(2.1)	8.2	(1.5)	0.9	10.40
Inited Kinadom Scotland	0.5	(0.2)	2.6	40.5)	9.8	(1.1)	24.2	(1.6)	30.7	0.49	21.5	0.40	9.2	(0.5)	1.5	10.33
Non-adjudicated	-	_	_	_	_	_	_	_	-	_	_	_	_	_	_	
Selgrum (French Correnance)	15	10.60	61	(3.2)	12.6	(1.2)	19.4	6.0	25.4	(1.5)	24 D	0.51	9.8	0.0	1.2	40.40
leigium (Cerman-Speaking Community)	0.0		2.1	00-80	93	(2.1)	203	(2.1)	30.0	(2-2)	27.7	(2.4)	93	(1.5)	1.1	10.63
Felgum (Ceman-Speaking Community) Felland (Finnish Speaking)	0.0	(0.1)	0.5	(0.8)	2.3	(2.1)	103	(2.1)	27.8	(2.2)	37.4	(1.3)	19.0	(1.5)	2,4	(0.6)
	0.0		0.5				18.0				30.5		11.6		0.9	
Finland (Swedish Speaking)	0.0	(0.7)	2.4	(0.4)	5.2	(1.0)		(1.8)	33.2	(2.0)	269	(2.5)	6.4	(1.6)	0.9	(0.5)
taly (Provincia Abruzzo)				(1.0)		(1.3)	21 4	(2.3)				(2-6)		(13)		
taly (Provincia Autonoma di Bolzano)	10	(0.7)	2.6	(1.40)	7.2	(1.3)	21.7	(2.1)	33.3	(2.0)	25.5	(1.8)	8.0	(1.3)	0.7	(0.3)
taly (Provincia Basilicata)	0.0	c	2.3	(0.6)	10.6	(1.7)	25,4	(2.3)	32.3	(2.2)	23.0	(2.0)	5.7	(0.1)	0.4	(0.3)
taly (Provincia Calabra)	0.9	(0.5)	3-2	(1-1)	13.8	(15)	304	(3.1)	32.6	(2-4)	162	(2-2)	2.9	(0.8)	0.0	-
taly (Provincia Campania)	0.6	(0.8)	4.2	(1.7)	12.3	(2.0)	25.3	(3.0)	34.2	(2.6)	19.2	(2.7)	3.8	(0.1)	0.0	-
taly (Provincia Emilia Romagna)	0.8	(0.4)	4.1	(1-2)	6.7	(2.0)	19.2	(2.8)	24.2	(2.5)	28.7	(2.2)	13.0	(1.7)	13	(0.6)
taly (Provencia Fritali Wenezus Cindiu)	0.5	(0.4)	0.6	(0.5)	4.2	(1.8)	14.7	(1.5)	30.9	(2.5)	33.4	(2.1)	14.1	(2.1)	1.8	(0.7)
taly (Provencia Lazio)	0.0	c	2.7	(1.3)	10.1	(2.5)	20.7	(2.1)	32.5	(2.5)	26.1	(2.3)	7.3	(1.7)	0.0	
taly (Provencia Ligure)	0.0	c	2.0	(0.8)	7.0	(1.1)	18.0	(1.9)	34.4	(2.9)	283	(2.3)	9.2	(1.3)	0.9	(0.5)
taly (Provencia Lombardio)	0.0	c	1.4	(1.0)	4.7	(1.0)	12.7	(2.3)	30.2	(2.5)	35.1	[2.6]	14.0	(2.4)	1.7	10.7
tely (Provencia Marche)	0.5	(0.3)	2.5	(0.7)	7.2	(1.2)	16.5	(2.4)	315	(2.6)	29.3	(2-6)	11.2	[1.9]	1.1	(0.6)
taly (Provincia Moline)	0.4	(0.3)	2.2	(0.7)	9.1	(1.5)	25 8	(2.4)	37.9	(0.0)	213	(3.2)	3.1	(1.2)	0.0	
taly (Provincia Piemonte)	0.6	(0.4)	2.8	(1.1)	5.5	(2.1)	20.7	(2.3)	28.9	(2.5)	25.7	(2.1)	10.4	(1.8)	1.0	(0.4)
tally (Provincia Puglia)	0.0		1.7	(0.8)	7.6	(1.2)	21.5	(2.5)	35.3	(2.3)	27.5	(2.9)	6.1	(1.9)	0.3	(0.3)
taly (Provuncia Sirologna)	0.0	c	2.5	(0.5)	11.7	(1.5)	26.3	(2.3)	32.2	(2.5)	210	(2.4)	6.0	(1.6)	0.3	(0.3)
nly (Provincia Sicilia)	1.2	(0.8)	3.5	(1.4)	14.4	(3.5)	27.5	(3.1)	31.7	(2.9)	17.9	(2.8)	3.5	(1.3)	0.0	
taly (Provincia Toscana)	0.6	(0.4)	2.5	(1.1)	7.6	(2.0)	18.8	(2.2)	30.7	(3.4)	306	(2.8)	8.7	(1.4)	0.6	(0.5)
taly (Provincia Teerro)	0.0	c	1.7	(0.8)	6.2	(8.3)	16.2	(2.2)	31.0	(2.7)	31.0	(2.8)	12.5	(1.9)	1.1	(0.5)
tsly (Provencia Umbru)	0.5	(0.4)	3.1	(1.1)	8.9	(1.5)	18.8	(2.2)	31.2	(2.7)	27.7	(2.4)	89	(1.5)	0.9	(0.4)
taly (Provincia Valle d'Aceta)	0.0		1.0	(0.7)	6.5	(1.5)	19.8	(2.8)	31.9	(2.8)	28.8	(2.7)	10.7	(1.7)	1.3	(0.8)
taly (Provincia Versito)	0.0	6	0.9	(0,6)	5.3	(1.3)	17.5	(2.3)	343	(2.2)	30.0	(2.8)	10.3	(1.7)	14	10.5
United Kroedom (England)	0.7	(0.2)	2.9	(0.5)	11.7	(1-0)	23.7	(1-3)	29.6	(1-1)	21.5	0.49	80	(0.9)	1.5	10.4
Jreted Kinadom (Northern Ireland)	0.5	(0.4)	2.6	10.71	97	(1.49	22.9	(1.5)	29.0	0.5	23.8	0.0	9.5	(1.2)	1.9	(0.5)
Jested Kundom (Wales)	0.6	10.33	3.7	10.73	14.1	(1.4)	28.5	(2.3)	29.0	(1.6)	18.1	(1.3)	5.3	(0.10)	8.0	(0.3)

Note See Tible 12.15 for national data Searchine Wife http://de.doc.org/10.1787/888932343004



[Part 1/1]
Mean score, variation and gender differences in student performance on the rea
Table S.L.o subscale continuous texts

Table S.I.o	sub	scale	e cor	ntinu	1045	fext	5															
		All sa	udesk		П	Cer	nder d	illero	nces		П					Perce	ntiles					
	Me SO			dard ation	84		G		(8	- G)	5	th	10	ith	21	5 th	71	th	91	ith	90	5th
	Mean	55.	S.D.	5.5	Mc as score	15.	Meas	SE	Scon dil.		****	SE	Score	SE	Score	5.E.	Score	55	Score	55	Score	85
Adjudicated	1								107		7000				-			_	100			
Belgram (Hemah Community)	517	2.0	34	(1.7)	506	(3.1)	5332	(3.3)	-28	(41)	357	(54)	350	0.7)	451	(3.3)	588	(3.2)	635	(3.5)	660	(3.3)
Spain (Andalusa)	463	(5.4)	93	(3.4)	452	(5.5)	475	(6.7)	-22	(5.1)	299	(12.1)	337	(94)	406	(7.7)	527	[440]	574	(5.4)	601	(7.2)
Spen (Aragon)	496	(4.4)	87	0.4	479	(5.2)	517	(544	-37	(6-0)	345	(120)	383	(35,7)	442	(5-0)	559	[4:30]	100	(41)	625	(4.1)
Spwin (Adurties)	495	(5.1)	96	(2.6)	481	(6.2)	529	(5.5)	-28	(6.2)	322	0.79	362	(8.5)	435	(5.7)	345	(5-6)	615	(5.8)	644	(5.5)
Spen (Balearic Islands)	461	(8,1)	36	(24)	40	(6-2)	423	(5.7)	-36	(5.8)	290	(10.7)	333	(80)	401	(8.3)	527	(7.8)	580	(9.76	605	(8.7)
Sport (Hasque Country)	497	(2.5)	85	(3.5)	478	(40)	517	24	-39	(3.6)	344	80	382	(6-2)	443	(4.0)	357	(2.2)	600	(2.5)	627	(3.3)
Spain (Carrary Islands)	453	(4-0	98	(2.3)	479	(43)	469	5.76	-29	(5.1)	255	0.79	326	(7.6)	386	6.79	524	0.00	574	(4.6)	603	45.25
Spain (Cantabna)	491	(4.2)	90	(2.3)	473	(4.5)	510	(5.1)	-37	(5.3)	329	00.5	368	(5-25)	434	5.6	553	(54)	603	HID	630	6.9
Spain (Castile and Leon)	507	(5.4)	87	(2.3)	490	66.50	524	53	-34	6.7	351	01.3	393	non	454	15.79		0.49	613	61.70	639	(6.3)
Spain (Catalonia)	503	(5.7)	85	0.49	407	55.00	539	(5.1)	-32	(4.2)	348	01.5	290	(10.1)	450	(6-3)	563	(5.4)	607	14.90	629	(5.2)
Spain (Ceuta and Mehlla)	415	(2.7)	107	0.80	400	0.9	429	32		(5.2)		(5.1)		(5.6)	340	(5,4)	493	(3.50	553	(5.1)	586	(5.6)
Spain (Galicia)	488	64.40	92	20	471	5.2	906	50	-36	(4.6)	327	(7.9)		830	428	(6-6)		(4.5)	601	5.6	626	6.4
Spain (La Riosa)	502	0.5	94		483	(3.1)	521	GR		06.60		(9,3)		(6.6)		(5.7)		(H,7)	614	[4.86	642	6.8
Spain (Madrid)	907	(4.7)	87	0.7)	485	5.90	927	5.2	-38	(6.3)		90		(7.1)	454	(5.5)	567	H.7)	612	(7.9)	640	
Spain (Murcia)	485	(5.3)	33	00	475	5.2	494	6.9		(5.5)		(6-7)		6-6				(57)		5.4		
Spain (Navarrel	500	0.10	87	(21)	653	PLES		0.96		6.2		0.0		0.30	442	(4.6)	562	(6.1)	609	H 40	634	(5.2)
United Kingdom (Scotland)	497	(3.1)	97	(1.7)	485		510	(3.1)	-25			0-79	374		433		566		623			
Non-adjudicated	_		_		_		_		_		_		_		_		_		_		_	
Belgum (French Community)	100	14.0	111	(2.3)	476	95.13	301	(1.0)	-25	(6.9)	296		336		490			(6.03)		(4.1)		(4.3)
Belgum (German Speaking Community)	497	12.70	92	(2.1)	475	BB		54.15		(5.4)		0.39		8-8	431	12.00	566	FLOR	612	15 30	638	(7.3)
Finked (Florish Speaking)					939	DR	518	28				(55)				(3.0)		(2.3)		12.40		
Finland (Swedish Speaking)	537	D.0	87	0.0	480	0.8	535	0.4		(2.0)		(7.6)		(4.8)	449	(5.1)	571	(2.3) (3.3)	612		666	(2.8)
Italy (Provects Abruzzo)	485	(4.6)	93		462							039				(5.6)				(4.30		
Italy (Provincia Abruzzo) Italy (Provincia Autonoma di Bolzano)	490	9.0	94	(2.5)	417	6.5	514	67		(6.7)		(12.9)		(72)	431	(4.7)	558	(5.6)	600	(5.5)	623	(5.2)
Italy (Provecta Autoroma di Bozzano)		(4.5)	91		456	6.7	909	(5.1)		(6.1)				(9.2)				(2.7)		(3.4)		
	479		92									(12:3) (12:9)		(9.2)		(6.29		(4.0)	592	(4.8)	598	
Italy (Provincia Calabrio)	452	(5.4)	92	(4.1)	424	9.6)	481	50		9.8				(11.5)	388			(5.5)	569	(21)		Ø 5)
Italy (Provincia Campania)	457	(7.1)			432	(9.1)		(5-8)		(8.3)		(16-8)		(11.5)		(8.6)		(8.4)		(7.6)	606	(7.5)
Italy (Provincia Emilia Romagna)	507	(4.1)	100	87)	492	(4.2)	521	011	-29	89		(11-9)	373	(8.9)	440	(7.7)	581	(4.7)	629	(4.5)	653	(57)
Italy (Proviscia Friuli Venezia Glulla)		(5.1)			486	(6.1)		5.8	-60	9.10		(13.2)		(8.6)		(8.59		(5.1)	630	(6.3)	655	(6.5)
Italy (Provincia Lazio)	434	(3.9)	94	(2.5)	461	6.9	511	67		0.0		(8.3)		(8.7)	418	(6-9)		(4.59)	603	(5.3)	629	(9.2)
Italy (Provincia Liguria)	495	(8.3)		(7.3)		(14.50		(5.2)		(148)		(253)		(20.5)				(5.8)	613	5.2	640	
Italy (Provincia Lombardio)	522	(5.3)	91	(3.1)	300	(6.5)	546	(2.1)		(9.3)		(90)	396	(9.2)	466	(7.9)		(5.6)	630	(6.3)	656	00
Italy (Provincia Marche)	501	(7.6)	93			(11.5)		(4.7)		(12.4)		(17.5)		(16-0)				(5.3)	618	(5.5)	642	(9.1)
Italy (Provincia Molise)	475	(2.8)	87	0.4	452	(3.8)	499	(3.5)		(4.8)		0.6		(7.4)	416	(4.2)		(5.1)	583	(5.2)	608	(6.2)
Italy (Provincia Piernonte)	499	(63)	97		481	(8.4)		(5-0)		(8.2)		(9.5)		(8.7)		(10.1)		(5.8)	620	(7.0)	648	(6.3)
Italy (Provincia Puglia)	492	(50)	88	0.49	468	(6.3)	515	53		(6.5)		(9.7)		(92)	434	(7.2)	555	(5.0)	599	(5.8)	623	(8 1)
Italy (Provencia Surdegras)	473	(43)	96		445	(57)		(5.1)		(7.7)		78		(5.2)		(5.5)		(5.8)	592	(7.3)	623	(7.8)
Italy (Provencia Sicilia)	458	(90)	100	(5.69)		(10.0)	481	(8-6)		(9.3)		Q49		(15.7)	391	(2.6)		(7.7)	581	(6.5)	607	(7.6)
Italy (Provincia Toscana)	494	(4.7)	96		420	(7.1)		(5.1)		(5.5)		(11.7)		(11.5)		84		(4.8)	610	(4.8)	634	(5.0)
Italy (Provencia Teento)	510	(2.8)	95	(2.7)	487	(5.1)	534	(5.8)		(10-6)		(10.6)		(87)	447	(5.7)	579	(4.9)	628	(4.9)	653	(4.5)
Italy (Provences Umbria)	493	(5.6)		(3.8)	469	00	516	(5.8)		72		(11.5)		(11.1)		(9.6)		(5.5)	614	(57)	641	(8.5)
Italy (Provincia Valle d'Acuta)	518	(2.5)	87	(2.2)	507	(3.3)	530	(3.5)		(4.4)		(10 t)		(9.1)	462	(6.6)		(3:1)	627	(5.4)	653	(5.9)
Italy (Provences Veneto)	506	(5.3)	91		478	(2.1)	533	0.4		(12.3)		(16-0)		(12.1)	447	(8.5)		(3.0)	615	(5.6)	645	(7.6)
United Kingdom (England)	492	(2.5)	:18	(1.4)	472	(4.6)	504	0.6	-26	(5.8)	329	(5.2)	365	(3.9)	425	(4.1)	560	(3.8)	617	(3.6)	650	(4.7)
United Kingdom (Northern Iroland)	499	(4.3)						(4,2)		(5.6)		(12.4)		(100)		(60)		(3.7)	626	(4.5)	657	(5.2)
United Kingdom (Wales)	474	(3.4)	95	(1.5)	460	(H.D)	488	(3.6)	-28	0.0	315	(5.2)	350	(4,9)	411	(4.8)	540	(41)	595	(4.4)	627	(4.6)

Note: See Table I 2.16 for national data.
Values that are statistically significant are indicated in bold (see Americ A3).
Scattlink (International International Control International International

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[Part 1/1]

								Proficie	ncy leve	ks						
	(few 25	Level 15 than 2.04	(from	el 16 262.64 is thus 4.25	(from to le	el 1a 134.71 n thun 7.42	(from to le	el 2 407,47 n thun 0.18	(from	vel 3 480.18 ss than 2.89	from to le	vel 4 :552.89 o: than 5.61	from to les	rel 5 625.61 n than 8.32	(above	el 6 698.32
	SCORE	points) S.E.	SCHOOL	points) S.E.	scien	points) S.E.	SCORE	points) S.E.	SCORE	points) S.E.	SCORE NO.	points) S.E.	Score %	(strioq	Score	points) S.E.
Adjudicated	1 7	NI.	-	XI.	-	XI.	- 2	M.	- 2	S.L.	- 74	S.I.	76	XI.	1.76	S.L.
Belgium Flomish Community)	0.5	(0.2)	2.9	10.0	4.9	40.60	17.8	40.25	26.3	0.0	27.9	(1.0)	11.3	(0.9)	2.0	ID-0
Score (Andalusio)	3.6	(0.9)	7.3	(1.1)	17.9	0.0	28.6	(1.2)	28.9	0.8	11.8	0.49	1.5	(0.5)	0.1	(0.1)
Soam (Acason)	1.5	10.40	3.8	83.73	13.3	(1.1)	25.6	(1.5)	30.6	(1.8)	19.3	(1.6)	5.1	m.m	0.2	(0.2)
South (Assurias)	2.4	10.50	3.4	83.23	12.6	(1,2)	24.8	(1,2)	29.6	(1.8)	20.1	(1.5)	4.7	ID 23	0.2	m.21
Soun (Balearic Islands)	4.0	10.59	8.8	(7.5)	18.2	(1.5)	29.5	(1.3)	26.5	(1.4)	11.1	(1.6)	1.8	(0.6)	0.0	2
Spain (Barque Country)	1.3	10.30	4.0	43.50	12.1	83.70	25.6	(1.2)	13.2	(1.0)	19.4	0.0	4.1	(0.5)	0.4	0.11
Spain (Canary Mands)	3.8	(0.7)	10.0	(1.4)	23.3	(3.6)	29.3	(1.4)	24.3	(1.7)	8.5	0.0	0.6	(0.4)	0.0	
Soun (Certabra)	1.6	(0.5)	5.3	40.70	14.0	(1.1)	25.9	0.49	31.4	(1,5)	17.1	(1.5)	4.4	(1.0)	0.3	(0.2)
Scalin (Castiliz and Leon)	1.0	(0.3)	3.5	(9.7)	11.0	(2.7)	23.7	(1.5)	36.1	0.0	21.2	(1.2)	4.7	(0.2)	0.3	(0.2)
Scoin (Catalona)	1.0	10.40	4.2	(0.5)	11.0	(1.3)	23.8	(2.0)	33.3	(1.2)	21.1	(1.9)	4.6	(0.9)	0.2	(0.2)
Sculp Couts and Mehilat	11.0	(0.9)	12.1	11.20	23.7	(7.40	22.4	(1.6)	12.9	61.80	6.2	(0.2)	0.7	(0.3)	0.0	E
Smin (Calicia)	2.0	(0.4)	5.2	80.21	13.5	(1.1)	26.9	0.40	12.0	(1.2)	17.5	(1.5)	2.7	(0.5)	0.1	40.1)
Scan La Robi	2.1	10.50	5.2	40.80	13.7	(1.2)	72.6	(1.9)	28.7	(2.1)	21.0	0.80	6.2	(1.0)	0.5	10.33
Scott (Madrid)	1.2	(0.5)	3.9	40.40	12.1	(1.40	23.1	(1.3)	32.5	(1.2)	21.0	(1.6)	5.2	(0.5)	0.4	01.33
School (March)	1.0	(0.4)	53	(1.1)	15.0	(1.6)	29.0	(3.4)	32.3	(2.11	14.4	0.6	2.1	(0.6)	0.2	(0.2)
Spain (Navare)	1.0	63.30	4.5	10.50	13.1	(3.3)	26.0	(3.7)	32.3	0.70	18.6	0.40	4.0	(0.7)	0.3	(0.2)
United Kingdom (Scotland)	9.2	89.20	3.0	40.40	10.5	60.80	22.0	(1.1)	29.1	(1.2)	22.9	0.31	9.9	(0.9)	1.0	(0.3)
Non-adadicated	-				_			_							_	_
Non-adjunctured Selesum Grench Community	2.6	10.61	6.7	10 th	13.2	(0.9)				(1.2)	22 8	(1.2)	8.9	(0.7)	10	69.21
Belgum (German-Speaking Community)	1.1	(3.2)	2.2	89.70	12.2	01.40	23.9	01.90	30.7	(1.2)	23.7	(1.8)	5.7	(1.0)	0.4	(0.3)
Finland (Finnesh Speciatre)	0.3	(0.1)	17	40.10	6.4	60.50	17.0	(0.7)	29.5	40.80	29.9	(0.9)	13.0	(D.III)	2.1	(0.3)
Finland (Swedish Speaking)	0.5	(0.2)	2.0	10.61	6.1	(1.1)	22.1	(1.3)	30.5	(1,2)	25.4	(1.5)	10.2	(1.4)	1.2	(0.4)
Italy (Provencia Abnuzzu)	1.9	(0.5)	5.3	(1.1)	15.9	(1.5)	28.4	(1.9)	27.3	(2.0)	16.5	(1.3)	3.5	ID.50	0.2	10.20
Italy (Provincia Autonoma di Bolizano)	1.6	(0.5)	5.2	40.60	12.1	(3.1)	24.0	(1.3)	29.6	(1.5)	19.9	0.0	6.5	(0.5)	0.9	(0.3)
Italy (Provincia Basilicata)	2.5	69.27	7.9	(1.1)	19.1	0.70	27.0	(7-4)	27.2	(1.6)	13.5	(1.6)	2.6	00.50	0.0	C C
Holy (Provincia Calabria)	1.2	(0.9)	11.7	(1.6)	22.7	(1.7)	29.0	(2.2)	22.7	(1.8)	9.0	0.70	1.5	(0.5)	0.1	40.20
Raly (Provincia Caraona) Raly (Provincia Carapania)	4.5	(1.4)	9.2	(1.1)	22.0	0.7	29.0	(3.8)	23.6	(2.4)	9.3	0.2)	1.8	10.60	0.0	(0.2)
Haly (Provincia Campania)	2.9	(0.9)	5.2	0.80	12.5	(1.4)	21.6	0.80	25.6	0.40	23.5	(1.5)	2.0	(0.9)	0.7	40.30
Italy (Provincia Friuli Venezia Giulia)	0.8	(0.4)	3.6	40.90	9.5	(3.4)	21.9	(2,1)	31.3	(1.8)	263	(1.5)	Z.8	0.50	0.5	(D.4)
Haly (Provincia Lazzo)	2.0	(0.5)	7.5	11.70	16.2	(3.4)	25.7	01,23	27.6	(L6)	16.9	0.20	3.8	(0.8)	0.3	(0.2)
Maly (Provincia Liguria)	2.3	(1.6)	6.1	42.90	12.9	(1.7)	24.2	(1.5)	29.1	(2.2)	20.3	(2.2)	4.8	(0.9)	0.3	60.23
Haly (Provincia Lombardia)	0.9	10.5)	2.9	60,60	8.8	(1.1)	19.5	(1.7)	31.5	0.0	26.4	(2.1)	8.9	(1.2)	1.2	10.40
Italy (Provincia Marche)	1.6	(0.8)	5.7	(1.6)	13.2	(1.6)	23.0	(1.5)	27.9	(2.2)	21.9	(1.5)	6.3	DLO:	0.4	60.20
Italy (Provincia Molise)	2.0	to a	6.0	40.50	18.7	(1.5)	29.5	(1.5)	28.0	(2.1)	13.1	(La)	1.7	ID.20	0.0	0
Italy (Provincia Monse)	1.0	10.40	5.2	(1.1)	14.5	(1,2)	23.3	(1.5)	29.1	(2.0)	20.6	(LZ)	6.1	m.so	0.5	40.33
Italy (Provincia Piemonte) Italy (Provincia Puglia)	1.4	(0.6)	51	(1.1)	14.7		27.3		29.8	0.0	12.1	(1.6)	4.1	(0.1)	0.5	
		(0.9)				(3.6)		(2.3)								(0.2)
Italy (Provincia Sardegna) Italy (Provincia Sicilia)	3.2	(2.1)	10.4	(2.1)	20.3	(2.5)	29.1	(2.5)	25.2	(1.9)	11.5	(LA)	3.2	(D.2)	0.3	60.20
Raly (Provincia Sicria) Raly (Provincia Toscana)	2.6	(0.7)	5.5	(3.0)	14.2	(1.9)	22.7	(2.0)	27.6	(1.8)	21.2	(1.5)	5.8	(B.9)	0.5	(0.3)
					12.2		22.1		30.5		22.0					
Italy (Provincia Tiento)	3.3	(0.4)	63	80.8)	13.9	(1.6)	22.1	(1.3)	22.7	(1.5)	22.0	0.40	Z.0 5.6	(D.8)	0.8	(0.3)
Italy (Provincia Umbria)				90.50		(1.3)								(0.9)		(0.2)
Italy (Provincia Valle d'Aosta)	0.7	(0.3)	3.5	80.70	11.3	(3.4)	24.8	(L.4)	28.7	(L6)	22.0	(1.5)	8.2	(0.5)	0.9	(0.4)
Italy (Provincia Veneto)	1.4	(0.6)	3.9	\$0.50	10.5	0.49	21.6	(L.9)	30.1	(1.9)	22.B	(1.5)	8.5	0.10	1.1	60.43
United Kingdom (England)	1.1	(0.2)	3.4	\$2.40	11.6	90.80	22.4	(03.85)	28.5	(0.3)	21.8	00.98	9.1	(0.2)	2.0	(0.3)
United Kingdom (Northern Indiand)	111	(0.6)	3.5	(0.7)	11.3	0.0	22.2	(1.2)	28.9	0-4	27.6	(1.1)	8.6	(0.9)	1.8	(0.5)
United Kingdom (Wales)	1.4	107.0	5.2	63.69	13.9	(1.0)	26.0	(1.2)	28.1	(1,2)	18.5	(1.0)	6.0	(0.0)	0.9	(0.2)

Note See Table 1.2.12 for national data. Search feek (ACCOM) https://doi.doi.org/10.1787/888902361905



[Part 1/2] Percentage of students at each proficiency level on the reading subscale non-continuous tex Table 8.14 by gender

							Ber	ys – Profi	iciency l	levels						
	(fee	Level 18 s than 2.04 points)	(from to le	el 16 262,04 st than 4,73 points)	(from to le	el 1a 334.73 is then 0.47 pointsi	to le	sel 2 467,47 is then 0.10 points)	to le	vel 3 480.18 is than 2.89 points)	from to le	vel 4 552,89 is than 5.61 points)	from to le	vel 5 625.61 us than 8.32 points)	(above	sel 6 e 698.32 points)
	96	S.E.	5	S.E.	5	S.F.	5	S.F.	76	S.E.	%	S.E.	%	S.E.	%	S.E.
Adjudicated		-	i i	- 100	-	100,	-		-				-		-	
Belgum (Flemsh Community)	1.3	(0.3)	3.0	0.0	11.0	40.91	70.0	(1.3)	260	(1.5)	25.4	(1.2)	10.9	0.0	1.6	(0.5)
Sezin (Andalusia)	5.2	(3.3)	9.2	(1.7)	19.9	(2.3)	22.2	0.0	26.0	(2.4)	10.9	(2.0)	1.5	(0.6)	0.0	
Scale (Access)	2.6	(0.7)	5.5	(1,2)	15.8	(1.5)	22.2	(2.1)	28.7	(2.3)	1160	(1.9)	4.1	(0.0)	0.2	(0.2)
Spain (Asturas)	3.2	(0.8)	Z.1	11.10	15.4	(2.69	25.7	(2,69	26.4	(2.1)	17.6	(2.0)	4.3	0.0	0.2	60.20
Spain (Balearic Islands)	5.8	(3,3)	10.8	(1.9)	19.4	(1,5)	23.9	(2,2)	23.5	(2.1)	6.9	(1.2)	1.0	(0.0)	0.0	
Spain (Basque Country)	2.2	10.50	5.6	10.40	16.0	(3.0)	26.4	(3.5)	29.8	(1.4)	16.6	0.11	3.2	10.50	0.2	(0.1)
Spain (Canary Islands)	4.4	(0.9)	11.4	CL40	24.2	(2.0)	29.9	(2.1)	22.2	(1.5)	7.5	0.40	0.5	40.30	0.0	
Spain (Cantabria)	2.5	(0.0)	7.4	(1.4)	17.7	(1.40	26.6	(1.2)	27.9	(2.2)	14.4	(1.8)	3.2	(0.9)	0.3	10.30
Spain (Castrle and Leon)	1.3	(0.5)	5.3	(7.2)	144	(1.5)	25.2	(2.6)	31.4	(2.3)	17.8	(1.8)	4.3	(LI)	0,0	C
Spain (Catalonia)	2.6	(0.7)	5.6	(1.5)	13.4	(1.6)	25.7	(2.7)	31.2	(2.8)	18.1	(2.4)	3.3	0.10	0.1	(0.11
Spain (Couta and Mehlla)	14.4	(1.5)	18.4	(7.8)	23.2	(1.5)	21.6	(2.4)	15.4	(2.6)	5.9	(1.2)	0.8	00.50	0.0	C
Scale (Calicia)	3.1	(0.8)	7.5	(1.1)	16.8	(2.0)	26.2	(2.0)	79.6	(2.1)	14.5	(1.5)	2.2	(0.7)	0.0	c
Spain La Riolai	3.1	60.40	6.9	(1.2)	16.0	(1.4)	24.5	(2.3)	25.9	0.40	181	0.3	5.1	II.30	6.3	(0.2)
Score (Madici)	1.6	(0.9)	6.0	(1.3)	16.4	(2.0)	24.3	(2.5)	30.4	(2.0)	12.1	(2.5)	1.9	(0.9)	0.0	(MZ)
Score (Murca)	1.1	(0.2)	5.5	(1.4)	17.5	(2.3)	29.3	(2.3)	31.6	(3.0)	13.2	DL6	1.6	(0.7)	0.0	40.20
		80.50			12.1	(1.50	27.6	(2.3)	28.9	(2.6)	15.8		2.3		0.2	10.20
Spain (Navare) United Kinadom (Soxdand)	1.5	40.30	6.6	(1.4)	13.2		23.6		26.9	(1.2)	15.8	(2.0)	8.9	(0.8)		(0.5)
United Kingdom (scottand)	1.1	93.50	4.4	(0.2)	11.2	(1.3)	23.b	(8.49)	26.3	(1/)	13.8	(1.6)	8.9	(1.1)	1.9	(0.5)
Non-adjudicated																
Belgum French Correnancy	1.0	(1,0)	8.3	(1.3)	15.4	(3,3)	19.3	0.8	23.7	(1.5)	20.9	(1.7)	7.6	(1.0)	0.9	10.10
Belgium (Cerman-Speaking Community)	1.2	(0.40	3.3	(1,2)	16.1	0.00	26.3	(2.5)	29.8	(2.5)	15.8	(2.4)	4.0	0.0	0.0	c
Finland (Finnish Speaking)	0.6	(0.1)	2.8	10.53	9.2	10.89	23.0	0.0	31.2	(1-2)	24.0	(1.3)	7.9	10.70	0.8	f0.33
Finland (Swedish Speaking)	1.0	(0.4)	3.4	0.0	11.8	0.6	28.0	(2.0)	29.5	(2.1)	19.4	(2.2)	5.4	(1.2)	0.3	(0.3)
Italy (Provincia Abruzzo)	2.1	(0.5)	9.6	(1.5)	19.9	(2.3)	29.5	(2.3)	23.7	(2-2)	12.4	(1.8)	2.5	0.0	0.2	(D.3)
Italy (Provincia Autonoma di Bolzano)	2.8	(0.7)	7.4	0.0	15.7	0.20	27.0	(2.3)	25.0	(1.9)	15.0	(3.4)	5.4	0.0	9.2	m.30
Italy (Provincia Basilicata)	6.1	(1.1)	10.7	(1.6)	22.4	(2.3)	27.3	(2.2)	23.4	(2.4)	10.1	(2.1)	1.9	n.m	0.0	0
Italy (Provincia Calabra)	5.2	0.5	17.6	G.D	26.6	(2.2)	26.5	(2.8)	16.5	(2.0)	65	0.30	1.0	BL50	0.0	0
Italy (Provincia Campania)	6.8	(1.8)	12.9	(1.2)	26.2	(2.2)	27.0	(2.1)	18.4	0.60	7.0	(1.5)	1.2	(0.4)	0.0	0
Italy (Provincia Emilia Romagna)	3.6	(1.0)	5.8	(1.1)	13.9	(3.50	23.4	(2.3)	26.8	(2.2)	20.6	(2.0)	5.6	(1.2)	0.3	60.30
Italy (Provency FrigitVenezya Cindus)	1.3	(0.2)	5.9	(1.6)	14.1	(3.50	26.6	(2.5)	28.0	(2.2)	20.0	(2.2)	6.1	0.0	0.3	(0.3)
Italy (Provincia Lazio)	2.8	(0.50	10.2	12.60	20.3	(2.1)	26.8	(2.4)	23.0	(2.0)	13.6	(2.0)	3.0	0.00	0.0	
Baly (Provincia Usuna)	4.0	(2.9)	2,3	(3.3)	16.4	(2.5)	26.3	(3.2)	24.5	(3.2)	15.7	(2.7)	3.6	(0.11)	0.0	0
Italy (Provincia Lombardia)	1.4	(0.80	4.4	0.5	11.2	(LE)	22.9	(2.6)	30.5	(3.1)	21.8	13.01	6.5	IL0	0.7	(0.3)
Holy (Provencia Marchy)	2.2	(3.3)	7.3	(2.8)	16.4	(2.4)	27.5	(1.8)	25.0	(3.3)	17.2	(2.3)	4.1	11.00	0.2	(0.2)
Italy (Provincia Moline)	1.7	(2.5)	100	(2.6)	24.1	(2.6)	23.3	(3,2)	21.2	(2.5)	10.7	(2.1)	1.5	(0.8)	0.0	C
Buly (Provencia Premortal)	1.6	10.80	6.2	(1.8)	15.7	(2.1)	25.0	03.00	28.1	0.0	18.0	(2.5)	4.7	11.00	0.4	(0.1)
Italy (Provincia Puglie)	2.2	(3.0)	8.1	(1.5)	18.2	(2.6)	29.1	(3.0)	25.7	(2.3)	13.7	(2.1)	2.6	10.50	0.3	10.20
Buly (Provincia Foglia)	6.8	(1.5)	2.6	(1.7)	22.5	(2.1)	30.3	(3.3)	18.3	(2.5)	9.8	(2.0)	2.3	(0.5)	0.0	6
Italy (Provincia Sicilia)	10.4	(3.3)	14.1	(2.0)	21.9	(3.6)	22.9	(3.3)	19.4	(2.8)	2.3	(1.6)	1.9	10.50	0.0	0
Italy (Provincia Toscana)	3.5	(0.9)	8.1	(1.6)	18.5	(2,7)	24.5	(2.6)	24.6	(2.2)	16.1	(2.1)	4.4	II.23	0.0	60.21
Italy (Provincia Insertia)	1.2	(0.8)	6.4	(1.2)	15.3	(2.2)	25.1	(1.8)	28.2	(2.5)	17.2	0.8	5.4	0.0	0.6	0.41
Ruly (Provincia Interio) Ruly (Provincia Umbrus)	5.5	(3.6)	8.6	(1.4)	17.1	(3.2)	23.6	(2.4)	25.0	(2.3)	15.2	(1.9)	3.9	(1.0)	0.0	(2.4) C
																60.63
Italy (Provincia Valle d'Acuta)	1.2	(0.5)	5.1	(1.2)	17.4	(2.4)	26.0	(2.2)	28.0	(2.1)	18.4	(72.3)	8.0	(1.5)	1.0	
Italy (Provincia Virroto)	2.2	(1.1)	9.4	(1.7)	113	(2.8)	26.1	(2.5)	22.5	(3.1)	18.3	(2.4)	6.0	(1,2)	0.5	\$2.40
United Kingdom (England) United Kingdom (Northern Instand)	1.2	(0.4)	4.2	93.20 81.20			24.2	(1.1)	25.8	(La)	19.1	(1.3)	8.0	(0.5)	1.5	(0.4)
United Kingdom (Northern Instand) United Kingdom (Wales)	1.2	(1.2)	5.3	41.29	14.2	(1.1)	23.3	(1.2)		(2.3)	20.3	(1.2)	7.6	(1.4)	2.6	(0.0)
		(0.5)			24.4	(2.4)		(1.4)	25.4			(1.2)		(D.2)	0.2	107.20

Note See Table 12.18 for national data Seart feek (agree https://de.doc.org/10.1/87/888723353355



[Part 2/2] Table S.Lq by gender

Cirls - Proficiency levels

	(fee	Level 18 s than 2.04 points)	(from	el 16 262,64 si than 4.23 points)	(from to le	el 1a 334.75 is then 7.47 points)	to le	vel 2 467,47 is then 0.10 points)	from to les	rel 3 480.18 is than 2.29 points)	from to le	rel 4 552,89 is than 5,61 points)	from to les	rel 5 625.61 is than 6.12 points)	(above	vel 6 698.32 pointsi
	%	S.E.	5	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
Adjudicated																
Belgum (Flemsh Community)	0.3	(0.2)	2.0	(0.4)	5.8	90.89	15.4	(32)	26.6	(3.3)	30.5	(1.3)	15.8	(1.2)	2.5	(0.6)
Spain (Andalusia)	2.3	(0.8)	5.3	(1.2)	15.2	(2.3)	30.2	(1.2)	32.2	0.11	12.8	(1.9)	2.5	(0.6)	0.0	- 0
Spalin (Aragon)	9.3	(0.2)	2.0	63.23	10.5	(1.3)	23.9	01.39	32.5	(2.4)	23.9	(2.2)	5.3	(1.2)	9.3	53.23
Spain (Asturas)	1.6	(0.7)	3.5	(0.39	9.5	0.49	23.8	(2.8)	33.2	(2.5)	23.0	(1.3)	5.1	£1.30	9.2	60.23
Spain (Ralearic Islandi)	2.2	60.29	6.2	0.50	16.2	(2.2)	29.1	(2,2)	29.6	(2.5)	12.3	(2.0)	1.9	(0.6)	0.0	0
Spain (Basque Country)	0.3	10.20	2.2	49.50	8.0	60.91	24.7	(3.5)	35.8	(1.2)	22.4	(1.2)	5.1	40.70	0.5	40.23
Spain (Canary Islands)	3.3	13.00	8.5	(2.0)	22.2	0.40	28.6	(2.2)	26.6	(2,2)	9.6	0.49	1.1	(0.2)	0.0	
Spain (Cantabria)	9.2	(0.4)	3.2	10.40	10.3	(3.2)	25.1	(2.0)	34.9	(2.1)	19.8	(2.2)	5.6	(1.6)	0.3	40.20
Spain (Castrle and Leon)	9.2	(0.40	1.2	(0.7)	7.2	(1,3)	22.3	(2.3)	36.8	(2.2)	25.4	(2.2)	5.0	(LD)	0.3	10.30
Spain (Catalonia)	1.0	(0.5)	2.7	40.60	5.1	(3.6)	21.8	(2.6)	35.6	(2.3)	24.2	(2.6)	6.0	0.40	0.0	
Spain (Ceuta and Mehlla)	7.7	0.00	163	(1.7)	26.2	(2.4)	23.4	(2.7)	29.3	0.80	7.4	(1.2)	0.7	(0.4)	0.0	
Spain (Galicia)	0.9	10.40	2.9	0.6	10.1	(3.5)	27.6	(3.50	34.4	0.40	28.6	(2.4)	3.3	(0.9)	0.2	60.20
Spain (La Riola)	1.0	60.40	3.5	(1.00	11.2	(1.5)	20.5	(2.8)	31.7	(2.7)	24.0	(2.6)	7.4	0.30	0.7	(0.5)
Sourn (Madins)	0.8	10.50	1.8	10.60	7.9	(3.3)	21.9	0.40	36.7	(2.0)	25.0	(2.2)	7.5	(1.2)	0.5	40.40
Storin (Murcia)	0.8	10.50	5.1	(1.6)	13.9	(1.7)	28.6	(1.9)	32.9	0.41	15.6	(2.3)	2.8	(0.7)	0.0	c
Soan (Navard)	0.5	10.40	2.3	0.60	8.7	(LS)	24.3	(2.3)	35.9	(2.3)	22.0	(1.9)	5.9	ILS)	0.4	10.40
United Kinadom (Scotland)	0.3	10.33	1.6	40.50	7.2	(1,2)	20.4	(1.8)	31.3	(Lu)	26.1	(1.5)	10.9	D.D	1.2	10.40
	_	_	_		_		_		_	_	-	-	-		-	
Non-adjudicated						-										
Belgrum @rench Community)	1.2	(0.5)	5.0	(1.0)	10.8	C.D	19.5	(1.3)	27.4	(LZ)	24.8	(1.6)	10.3	(1.2)	1.0	10.10
Belgium (Cennau-Speaking Community)	0.5	(0.0)	0.0	c	8.2		21.4	(2.5)	31.6	(2.6)	28.8	(2.5)	7.6	(1.6)	0.2	(0.6)
Finland (Finnish Speaking)	0.2	(0.1)	0.6	(0.2)	2.8	(0.0)	11.0	(0.5)	27.9	0.11	35.9	(1.3)	18.2	(1.2)	3.5	(0.6)
Finland (Swedish Speaking)	0.0	c	0.5	(0.3)	5.5	(0.0)	16.3	(2.0)	31.5	(2.6)	31.3	(2.3)	14.0	(1.5)	2.0	(0.2)
Italy (Provincia Abruzzo)	1.6	(0.5)	2.6	(1.0)	11.4	(1.6)	27.2	(2.7)	31.3	3.0)	21.1	(2.8)	4.6	(1.3)	0.3	(0.3)
Italy (Provincia Autonoma di Bolzano)	0.9	(0.6)	3.1	\$0.5)	8.4	(3.6)	21.0	(2.2)	34.3	(2.8)	23.8	(1.5)	2.6	(1.3)	1.1	(0.4)
Italy (Provincia Basilicata)	0.8	(0.6)	5.0	£1.3)	15.6	(2.2)	26.5	(ILZ)	31.4	(2,3)	17.1	(1.9)	3.3	(1.1)	0.0	0
Italy (Provincia Calabra)	1.2	(0.6)	5.2	(1.1)	18.7	(2.4)	31.5	(2.6)	29.1	(2.4)	11.6	(2.0)	2.0	(0.8)	0.0	c
Italy (Provincia Campania)	1.4	(1.0)	5.2	(1.4)	16.0	(2.3)	31.6	92,89	30.3	(3.1)	12.3	(2.1)	2.6	(1.1)	0.0	C
Italy (Provincia Emilia Romagna)	2.3	(3.0)	4.6	41.30	11.2	(8.8)	19.8	(2-4)	26.5	(2.4)	26.3	(2.3)	8.3	(1.6)	1.1	(0.5)
Italy (Provencia Friuli Venezia Cindu)	0.0	c	1.1	(22.7)	4.5	(E_4)	19.1	(2.3)	34.9	(2.5)	28.9	(2.6)	9.2	(2.0)	1.4	(0.2)
Italy (Provencia Lazio)	1.0	(0.6)	4.3	47.80	11.5	(2.1)	24.4	(2.5)	32.9	(2.4)	20.8	(2.5)	4.8	(1.0)	0.0	c
Italy (Frowncia Ligure)	0.2	(0.3)	2.5	(3.0)	8.8	(L2)	21.8	(2.2)	34.4	(2.5)	25.6	(2.5)	6.2	(1.2)	0.5	(0.3)
Italy (Provincia Lombardia)	0.3	(0.5)	1.3	43.73	5.5	(8.2)	15.6	92.00	32.5	(2.3)	31.5	(2.5)	11.6	(1.5)	1.2	(0.6)
Huly (Provences Marche)	0.9	(0.5)	3.2	(0.5)	9.2	(2.5)	12.2	(2.7)	31.3	(3.5)	27.5	(2.8)	2.9	(1.5)	0.7	(0.5)
Italy (Provincia Moline)	3.0	(0.43)	3.5	\$2.69	12.1	(3.7)	29.7	0.49	35.2	(3.1)	16.3	(7.5)	2.0	(1.0)	0.0	0
Italy (Provincia Premonte)	9.4	£0.49	5.3	(2.3)	33.1	(2,3)	21.6	(2.0)	29.9	(2.5)	22.2	(2.1)	7.5	(1.2)	0.5	(9.3)
Italy (Provincia Puglia)	0.6	(0.4)	2.2	(8.0)	11.5	(1.5)	25.6	(2.8)	33.6	(2.9)	28.2	(2.0)	5.6	(1.2)	0.2	(0.4)
Italy (Provincia Sirdogno)	9.2	(0.6)	3.2	(1.2)	15.0	(2.3)	28.0	(2.2)	32.7	(2.8)	15.3	(2.7)	5.0	(1.2)	0.4	(0.3)
Italy (Provincia Sicilia)	2.5	(1.3)	6.2	8.0	18.8	(3.0)	28.2	(2.5)	27.2	(3.3)	13.6	(2.2)	2.5	(0.8)	0.2	(0.2)
Italy (Provincia Toscana)	1.2	(0.8)	2.6	(2.1)	2.6	(1,4)	20.7	(2.2)	30.9	(2.7)	26.8	(2.3)	7.6	(1.3)	0.7	(0.5)
Italy (Provincia Tierro)	0.3	0.0	2.1	(0.8)	8.7	(1.8)	19.9	(2.2)	32.5	(2.8)	26.7	(1.3)	8.2	(1.3)	1.0	(0.5)
Italy (Provencia Umbru)	1.2	(0.0)	4.2	(1.0)	10.7	(1.2)	23.5	(2.6)	30.3	(2.6)	22.0	(2.2)	7.3	(1.3)	0.8	(0.4)
Baly (Provincia Valle d'Acuta)	0.0		2.0	40.80	10.1	(1.5)	23.6	(2.1)	29.5	(2.5)	25.6	(2.1)	2.4	D-30	0.8	(0.4)
Baly (Provincia Versito)	0.0		1.5	\$0.40	6.5	(1.4)	12.3	(2.7)	32.6	(2.3)	27.0	(3.0)	10.8	(2.m)	1.8	(0.7)
Unded Kroedom (England)	0.6	80.20	2.2	10.40	2.5	(1,0)	20.6	(1.1)	29.9	(1.3)	24.4	0.49	10.2	0.0	2.6	(0.5)
United Kinadom (Northern Instand)	0.5	10.33	1.0	10.70	5.1	0.0	21.2	(1.7)	31.5	(1.9)	26.7	(1.5)	9.7	D.20	2.0	(0.0)
United Kondom (Wales)	0.6	(0.2)	3.4	40.40	11.1	(1.1)	25.3	(3.50	29.8	0.49	21.1	0.13	5.0	00.50	1.0	(0.3)

Note See Table 12.18 for national data Seart feek 1977 http://dx.dx.org/10.1787/88892233335



[Part 1/1]

Mean score, variation and gender differences in student performance on the reading subset Table S.Lr. non-continuous texts

Table S.Lr	поп	-con	tinu	eus	text	3																
		All sa	udent			Cer	eder d	idiere	nces							Perce	nik					
	Mi 50			dard ation		iys		ids	(8.	rence - G)	5	th	10	mh	21	eh.	7	ith	90	ith	95	5th
	Mean	55.	S.D.	5.E.	Mc as score		Mean	85	Score	8.5	·	S.E.	Score	SE	Score	5.5	Score	55	Score	55	Score	85
Adjudicated																						
Belgism (Flemah Community)	526	(2.5)	95	0.20	512	93.20	541	0.9	-29	65.30	351	0.3	353	0.3	461	0.49	596	(2.80	0-65	0.40	671	BLZ
Spain (Andalusa)	453	843	35	OLD)	402	39.70	465	0.66	-23	65.30	285	04.0	327	01.30	394	(7.4)	519	(5.80	366	19.00	592	(7.1)
Spain (Aragon)	489	1520	31	2.5	473	9620	505	0.2	-33	65.2	332	01/0	370	15.30	429	(5.0)	554	85.20	602	(5.2)	625	6.2
Spwin (Nebutan)	482	(6.2)	35	(Z.B)	459	(5.69	497	98.59	-28	66.23	303	80.13	351	65.13	422	5.2	553	(6.5)	600	15.40	625	65.23
Spen (Balcoric Islands)	448	(5-3)	36	0.0	435	6.7	462	5.0	-27	6.7	273	E 2 59	310	00.0	355	8,25	517	(6.5)	564	15.20	591	65.25
Sport (Hasque Country)	489	0.0	- 55	0.00	473	Q.90	306	(2.9)	-33	0.9	332	8.0	373	66.10	435	65.00	550	12.50	596	(2.0)	622	0.50
Spain (Carrary Islands)	435	(4.3)	92	0.00	427	95.40	454	55.38	-17	(5.0)	277	(7.9)	316	(8.0)	375	03.73	502	65.20	530	(5.1)	578	(53)
Spain (Cantabna)	481	(4.3)	53	2.50	464	5.5	498	25.89	-34	6.2	319	(7,0)	357	8.0	422	5.2	544	0.0	594	15.50	624	65.49
Spain (Castile and Leon)	496	(6.2)	82	0.20	482	55.05	309	21.62	-27	6.3	340	83.73	377	(7.7)	442	15.30	557	8.50	600	(5.1)	625	15.21
Spain (Catalonia)	491	(5.D)	31	2.63	476	55.20	506	15.30	-30	(5.9)	321	0430	369	8.0	437	(8.0)	555	(5.6)	598	15.70	624	46.60
Spain (Couts and MeNIa)	398	(2.7)	111	(7.40	385	54.30	411	0.21	-25	62	230	(12.6)	255	(7.5)	323	(5.5)	482	14.00	540	(5.00	570	65.11
Spain (Galicia)	476	(6.7)	92	0.7	450	15.80	692	(5.1)	-32	6.0		00.0	325	(7.7)	423	(5.4)	540	(5.69	986	14.6	611	65.40
Spain (La Ricia)	487	G.O	101	OB	471	0.8	504	0.9	-33	6.0		9.6	353	(7.5)	422	(5.1)	560	B.1)	610	(5.2)	636	15.80
Spain (Madrid)	494	(4.8)	92	(3.3)	475	62	513	5.6	-37	6.0	333	09.6	377	(6.5)	436	(5.7)	558	0.50	607	15.86	632	65,60
Spain (Murcia)	472	(2.0)	as	90	467	56	479	5.90	-11	05.00		(10.7)	359	62	418	15,00	532	66.90	576	(5.7)	603	15.60
Spain (Navarre)	486	0.80	89	(2.2)	458	CS.D	505	44.6	-37	69	329	00		16.30	430	(50)	548	64.10	234	14.0	620	5.7
United Kingdom (Scotland)	511	0.40	56		498	61.55	524	0.25	-26	(6.3)	348	66.30	386	(5.6)	447	H.S	579	(5.3)	634	(5.30	664	6.1
Non-adjudicated	-						_	-	-	-	-	-			-			-	-	-		-
Belgrum Grench Community	492	66	110	(2.7)	478	6.0	507	P\$30	-30	2.8	294	0.60	340	(7.4)	435	(6.2)	574	19.36	625	P6.1)	651	91.60
Belgum (German Speaking Community)	499	12/0	51	0.20	481	68	519	91.0	-38	5.6	353	(2.1)	383	0.60	440	(5.2)	565	0.70	609	15.00	634	46.89
Finland (Finnsh Speaking)	536	(2.6)	89	(7,3)	509	2.80	563	(2.9)	-54	0.8	380	(8.5)	419	B(S)	479	0.0	598	0.00	646	0.00	671	8.00
Finland (Swedish Speaking)	519	2.0	89	(2.1)	492	81.25	545	3.0	-54	(4.9)	367	(B.D	404	(6.6)	459	84.30	583	(5.2)	631	(4.4)	657	116
Italy (Provecta Abruzzo)	471	(5.3)	94	(3.2)	452	45.47	492	15.Ot	-39	65.E)	311	009	349	(5.3)	430	0.60	539	6.7	589	8.2	617	(7.2)
Italy (Provincia Autonoma di Bolzano)	490	0.3	100	0.80	470	(4.0	510	3.4	-49	(4.3)	313	nea	358	(8.1)	431	15.96	559	0.9	612	(4.7)	642	45 11
Italy (Provincia Basilicata)	458	(4.5)	95	(3,09	439	65.33	409	5.0	-40	65,30	257	006	332	0.20	394	17.4	527	6.0	577	(7.3)	605	OR
Italy (Provincia Calabrie)	437	(5,0)	96	0.4	411	(7.3)	463	5.8	-52	(2,2)	278	6.3	312	63	372	(7.6)	504	(5.8)	556	15.06	585	(7.1)
Italy (Provincia Campania)	438	(6.7)	99	14.90	415	8.9	467	5.0	-52	6.31	270	08.4	312	(12.6)	375	(7.6)	507	(8.2)	558	8.6	591	(9.2)
Italy (Provinces Emilia Romagne)	491	(5.D)	105	14.5	479	56	503	0.8	-24	87	298	08.5	350	01.2	426	(8.2)		15.20	615	(5.1)	641	69
Italy (Provincia Friuli Venezia Glulia)	508	61,40	92	0.0	486	5.8	530	5.8	-44	(7,4)	343	03.8	387	50	450	0.40	572	(5.2)	621	15.50	645	66.51
Italy (Provincia Lazio)	471	14.30	92	28	452	15.70	493	67.01	-49	6.9	300	7.0	339	8.9	406	(58)	542	6.4	591	16.50	619	0.4
Italy (Provincia Liguria)	482	10.40	99	8.2	436	07.00	511	58	-52	0630	308	(29.5)	348	(27,5)	422	D4.50	554	(5.40	601	15.25	626	48.21
Italy (Provincia Lombardia)	515	15.0	92	(2.9)	496	0.0	537	66	-49	6.0	350	02.0	392	15-8	460	(7.2)	580	(5.5)	626	(6.9)	653	15.31
Italy (Provincia Marchel	490	17,40				CLD		511		G2.E		08.0		D5.30		f(2,1)		15.00		5.0		06.00
Italy (Provincia Molise)	459	12.70	50	(21)	438	38	481	63	-43	(48)	300	7.6		(5.3)	400	(5.5)	525	(4.5)	572	(4.8)	598	(7.2)
taly (Provincia Piemontel	489	58		0.0	477	0.00	500	6.7		0.8		nao		01.8		(8.6)		(5.5)		15.70		5.4
Italy (Provecta Puglia)	480	16.30	92	(1.0	459	070	499	6.8		0.31		059		(10.3)	420	(8.3)	544	7.4	595	8.50	622	9.60
Italy (Provincia Sardisma)	457	(5.3)		14.30	430		400	5.9		0.5		048				(5.5)		(5.99	579	(7.9)	610	
Italy (Provincia Sicilia)	436	87	112	D-6		(12.3)	459	(10.7)		01,31		Q8 I)		(ISS)		112.60		65.89	568	(7.00	598	08 18
Italy (Provincia Toscana)	485	(4.9)		0.20	463	68	509	5.8		8.6		пзе		(8.2)	418	(8.3)		16.70	608	(5.3)	635	6.8
Italy (Provence Tecnto)	418	12.50	25	(AS)	480	58	519	5.9		97	331	88	370	(7.0)	435	(4.05		11.4	615	(4.1)	646	6.8
Bahy (Provencia Umbria)	478	(5.5)			456	0700	499	95.00		02		T13:3N		01 2		18 3)		H-50		06.96	632	6.4
Baly (Provincia Valle d'Acuta)	502	(2,4)	21	0.80	493	0.30	512	(3.6)		0.0	342	(7.3)	160	0.0	441	0.0	589	(SA)	622	(4.4)	650	15.33
Baly (Provences Versito)	504	6.49	92	14.30	479	13.25	538			are.		U2-6		(12.2)	444	(7.6)		0.00	623	15-60	652	16.83
United Kinedom (England)	506	07.80	22	11.70	433	95.40	512	0.6	-26	(5.5)	340	(4.3)	380	0.6	440	0.50	575	GB	631	04.40	66-5	5.60
United Kingdom (Northern Instanct)	506	(4.3)				88.25												0.5		B.B	658	14.6
Unted Knadom (Wales)	486	0.4		(1.6)		640				0.9		(5.3)			423	(4.1)		8.9	609	(40)	639	14.73

Note: See Table 1.2.19 for national data.
Values that are statistically significant are indicated in bold (see Annex A3).
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[Part 1/1]

							PRODUCE	ncy levels						
	dess the	Level 1 in 337,77 points)	drom 3 less tha	rel 1 (57,77 to n 420,07 points)	(from 4 less the	rel 2 129.67 to n 462.38 points)	(from 4 less tha	ref 1 82.38 to n 544.68 points)	girom 5 less tha	el 4 44.68 to n 606.99 points)	(from 6	rel 3 06.59 to n 669.30 points)	Cabove	el 6 669.30 points)
	%	S.E.	5	5.1.	%	5.1.	5.	5.1.	%	S.E.	%	S.E.	%	5.1.
Adjudicated														
Belgram (Floresh Corremancy)	4.2	(0.0)	2.3	(2.2)	10.3	32.29	21.3	(1.1)	22.1	(1.2)	18.2	(3.6)	8.7	(01.25)
Spein (Architeste)	12.8	(1.6)	17.9	0.49	26.7	0.49	25.0	(1.8)	13.3	(1.6)	3.2	(0.50	0.5	(0.3)
Spain (Aragon)	6.8	(1.2)	11.3	(1.3)	20.5	(1.2)	25.1	(1.2)	22.0	(1.5)	10.9	(1.3)	3.4	(0.7)
Space (Autumos)	8.8	0.00	12.0	0.49	20.8	(3,50	27.2	(1.8)	21.1	(1,8)	8.5	(1.3)	1.6	(0.4)
Spein (Balairic Mande)	12.2	(1.3)	17.3	(3.2)	25.3	(1.8)	26.2	(1.5)	25.1	(1.5)	4.4	(0.6)	0.5	(0.2)
Speen (Basque Country)	5.3	(0.7)	3.0	(0.2)	20.5	(2.8)	28.6	(1.2)	23.2	(1.3)	10.5	(0.2)	2.2	(0.3)
Spoin (Corusy Mands)	18.1	(1.2)	25.2	(3.3)	22.5	(1.2)	20.1	(1.49	7.2	\$0.50	1.3	(0.5)	0.1	(0.1)
Cortabria)	8.1	0.0	13.6	0.49	22.0	(1.6)	25.1	(1.3)	19.2	01.60	2.4	(1.2)	2.5	00.51
Span (Carble and Leon)	5.1	0.0	10.3	(1,3)	18.6	(3.3)	27.5	(1.3)	23.1	(2.0)	11.0	0.30	3.5	(0.5)
Spoin (Catalonia)	2.1	(1.2)	11.8	(3.5)	22.4	(1.69	27.1	CLAS	20.0	(1.4)	5.6	0.40	1.8	00.51
Spote (Couts and Mobile)	29.1	(1.2)	21.6	(1.4)	21.5	(1.4)	17.0	(1.5)	B.A.	(1.4)	1.8	00.49	0.4	(0.2)
Spoin (Gallett)	5.9	(1.6)	13.4	(1.3)	25.1	(1.5)	27.6	(1.8)	20.0	(1.7)	5.2	(1.0)	0.7	00.21
Spien (La Ricia)	8.3	CLD.	11.1	(7,3)	19.7	CLED	25.5	(1.5)	20.3	(1.5)	11.0	(1.2)	4.0	00.60
Sport (Madrid)	5.3	(02.79)	12.8	(3.4)	23,4	0.49	27.9	(1.3)	19.3	(1.39	6.5	(1.2)	1.9	50.40
South (Murch)	5.0	(1.4)	16.3	(1.7)	25.7	0.70	26.5	(3.25)	17.0	(1.1)	5.2	(01.20)	9.6	12.2
Scarin (Nasama)	5.5	(1.3)	2.5	(1.1)	19.5	0.11	27.6	0.40	24.3	(2.3)	11.3	(1.5)	2.1	10.5
Unated Krigdom (Scotland)	6.2	99.20	13.5	12.00	23.5	(1.1)	25.5	0.40	18.9	(1.1)	2.1	(0.2)	3.2	09.50
Non-adjudicated									-			_	-	
Belgram (French Community)	12.2	(3.3)	11.5	(0.39	13.0	(1.1)	22.4	(3.2)	20.2	(1.3)	10.0	(0.40)	2.3	10.4
Belgium (German-Speaking Community)	4.3	(23.2)	10.5	0.49	14.5	(1.38	23.2	(3.40)	25.9	(1.8)	13.0	(1.4)	2.5	30.2
Finland Finnsh Speakings	1.2	42.3)	6.0	(0.5)	15.3	@31	27.0	(3.0)	28.0	(0.50	17.0	(0.4)	5.0	10.6
Finland (Swedish Speaking)	1.9	49.53	8.0	(3.2)	13.4	(3.6)	28.9	(3.49	25.4	(2.1)	12.7	(1.3)	3.6	(0.8
Italy (Province Abruzzo)	9.3	0.49	14.5	(2.1)	25.2	(2.1)	24.5	(3.6)	16.4	(1.8)	5.1	(3.5)	0.2	19.5
Italy (Provincia Autonoma di Bokzano)	5.5	(3.2)	11.2	0.0	21.5	0.49	27.A	(3,8)	20.6	(1.3)	11.2	00,30	2.6	D.4
Italy (Provincia Basilicato)	8.02	(2.4)	14.2	(1.6)	27.5	(1.49)	25.2	(1.2)	14.3	(1.3)	5.1	10.50	1.1	00.3
taly (Provincia Calabria)	14.4	(2.0)	25.7	(1.3)	10.5	(3.2)	19.7	(1.2)	5.2	(1.5)	1.0	(0.6)	0.0	
Italy (Provincia Campunia)	14.7	(2.2)	23.2	(2.1)	23.0	(2,3)	13.0	(2.1)	9.1	(1.5)	3.4	(1,2)	9.5	00.40
taly (Province (mfis Romagne)	8.2	[7.6]	12.6	(3.49)	19.4	(2.5)	24.2	(3.59)	20.3	(1.4)	11.3	(1/2)	3.3	(0.5)
Italy (Provencia Feluli Veneza Gaulta)	5.0	(1.2)	10.1	0.40	21.8	(3.3)	27.4	(1.6)	22.5	(1.49)	10.6	(1,2)	2.8	(0.5)
Italy (Provincia Luzio)	9.9	0.31	15.2	(3.31	27.1	(2.2)	22.8	0.40	15.6	(1.4)	5.4	(1.3)	1.0	(0.5)
laly (Provincia Ligura)	7,8	(2.2)	13.0	(2.2)	21.3	(2.1)	25.0	(2.1)	19.1	(2,3)	7.7	0.00	1.6	(0.4)
taly Provincia Lombarda)	5.0	0.0	8.9	(1.2)	19.3	(1.5)	28.2	0.60	24.8	(1,89	11.6	D.40	2.5	02.46
taly (Provincia Marche)	5.9	(0.9)	12.4	0.49	22.2	(2.3)	28.1	12.03	21.9	(2,2)	8.0	(1.1)	1.5	00.49
Italy (Provincia Molise)	10.5	(1.1)	18.7	(1,3)	26.9	(2.3)	26.5	(1.5)	12.7	(3,5)	4.5	0.0	0.6	03.31
Italy (Provincia Piemonte)	8.1	0.40	13.1	(2,0)	22.2	(3.6)	25.5	(1.5)	20.8	(1.5)	8.2	(1.3)	3.8	00.4
toly (Provincia Puglia)	5.9	(1.3)	15.5	(1.5)	25.7	(2.2)	25.1	0.21	17.6	(2.2)	7.4	(1.6)	1.9	00.6
Italy (Provincia Sardegna)	12.6	(1,8)	19.9	0.80	28.9	0.20	23,3	(1,2)	11.8	(3.4)	3.2	(0.6)	0.3	00,2
taly (Provincia Sicilia)	14.8	(2.3)	21.5	(2.4)	26.6	(1.5)	20.5	(1.8)	11.6	(1.5)	4.3	(0.9)	0.5	03.3
taly (Provincia Toscana)	7.0	(1.3)	13.9	(3.40	22.7	(7.8)	26.9	(1.5)	19.4	(1,8)	8.5	(1.6)	1.7	00.6
Saly (Provincia Trento)	4.1	(0.7)	10.3	(1.1)	19.8	0.40	28.8	0.60	23.1	(1.2)	10.9	0.30	3.0	60.7
taly (Provincia Umbria)	9.0	CLD	15.4	(1.5)	22.5	വര	25.7	(1,5)	18.3	(1,2)	2.6	CLD	1.7	82.5
taly (Provincia Valle (PAesta)	5.3	(1.0)	11.9	(LD	24.6	(1.8)	25.5	(1.2)	21.2	(1.5)	9.1	(1.3)	2.5	10.5
Bally (Provincia Veneto)	4.2	(1.1)	11.2	(2.3)	21.2	(1-6)	28.5	(3.5)	21.6	(1.8)	10.6	0.40	2.6	00.6
United Kriadom (England)	61	40.60	13.7	10.50	24.8	(1-1)	27.5	(1.3)	18.0	(1.2)	8.2	(0.7)	1.7	10.3
United Kingdom (Northern Ireland)	6.5	00.81	14.9	(1.1)	24.6	0.20	24.9	(3.5)	18.9	CLAD	8.5	(0.5)	1.8	10.4
United Kingdom (Wales)	8.4	40.81	17.9	(1.1)	28.4	0.0	26.1	(3.3)	14.3	(0.50	4.4	(0.5)	0.6	10.2



[Part 1/2]

Table S.Lt	Perce	ntage o	of stud	ents at	each p	roficie	ncy le	rel on t	the ma	theme	tics sca	sle, by g	ender	
						Be	ys - Profi	iciency lev	vels					
	dess the	Level 1 in 357.77 points)	(frum) less tha	rel 1 57,77 to n 420,07 points)	from 4 less that	el 2 29,97 to n 482,18 points)	(from 4	rel 1 82,38 to n 144,68 points)	from 2 less tha	rel d 144.60 to n 606.99 points)	(from the	vel 5 i05,99 to n 669,30 points)	(above	rel 6 607.30 points)
	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
Adjudicated														
Belgram (Flemish Community)	3.0	80.71	5.0	(33.55)	15.2	(1.0)	20.7	(1.5)	21.2	(3.40)	19.3	D.40	11.2	(1.2)
Span (Andaluso)	10.9	(3.9)	36.2	(8.60	24.3	(2.7)	25.6	(2.4)	16.2	(2.2)	5.2	(1.5)	0.5	(0.4)
Spein (Apagori)	6.2	0.3	9.4	(3.6)	19.3	(1.3)	26.1	(2.2)	22,3	(2.2)	13.3	(1.10)	4.9	(1.3)
Spoin (Asterios)	8.6	(1.1)	11.5	(1.6)	19.1	(2.2)	26.1	(2.6)	22.2	(2.5)	10.1	(1.5)	2.3	03.63
Spein (Balcaric Islands)	11.5	(1.5)	15.5	(2.3)	23.5	(1.5)	24.5	(2.5)	17.8	(2.3)	5.4	(1.2)	0.Z	(0.3)
Spain (Basque Country)	5.8	(1.0)	9.5	00.96	19.1	0.00	26.8	(1.7)	23.7	(1,6)	12.2	(0.9)	3.0	(0),51
Spein (Carery Mands)	15.9	(1.6)	23.7	(1,8)	25.8	(2.4)	22.3	(1.7)	9.2	(LD)	1.9	(0.2)	0.2	00.23
Spain (Carpabra)	Z.Z	0.21	12.4	(3.25	20.4	(3.8)	24.1	(2.2)	21.2	62,60	10.9	(1.5)	3.2	00,23
Spain (Castile and Leon)	5.4	B.20	10.3	(1,5)	16.0	(1.2)	25.5	(1,2)	23.5	(2.5)	14.0	CL8)	5.2	CLAS
Spare (Capilona)	6.3	(1.2)	11.2	(2.0)	21.2	(2.6)	25.2	(2.7)	22.5	0.80	10.9	(1.2)	2.8	00,85
Spain (Ceuts and Mehlla)	28.9	0.5	19.4	(2,1)	20.1	(1.5)	17.5	(1.7)	10.5	(1.3)	2.9	(0.9)	0.6	00.30
Spain (Calleto)	5.2	(1.1)	11.2	(2.1)	25.2	(2.4)	26.2	(2.1)	21.4	(2.1)	7.8	(1.2)	1.0	00,40
Spain (La Ricia)	5.2	G.D	11.5	(1.8)	19.2	(2.2)	23.4	(2.2)	20.2	(2.0)	13.3	(1.2)	5.8	(3,0)
Spain (Madrid)	5.8	(1.2)	12.7	(2.4)	22.5	(2.3)	26.5	(1.6)	20.1	(1.6)	10.1	(1.6)	2.3	60.60
Spain (Murcia)	Z.2	(1.5)	15.3	(2.1)	24.4	(2.1)	25.3	(2.2)	20.9	(2.2)	5.4	(1.2)	0.5	19.33
Spain (Navorre)	4.6	(1.4)	92	(1.5)	19.9	(1.5)	25.2	(2,2)	24.5	0.0	13.2	0.20	2.9	10.81
United Kinadom Scotland	5.9	(0.5)	13.0	(1.2)	21.2	0.6	25.2	(1.5)	19.7	(2.0)	10.9	(LI)	4.2	00.60
Crises Krigacini (scosano)	2.2	(0.2)	130	(1.2)	21.2	(1.20)	25.2	(LJ)	132	1230	10.5	(LLL)	200	(12.0)
Non-adjudicated														
Belgium (French Community)	9.9	(2.0)	13.2	(1.39	18.7	(1.6)	20.7	(1.3)	20.9	(1.6)	13.2	(1.3)	3.3	(0.6)
Belgum (German-Speaking Community)	3.3	(0.5)	11.9	(1.9)	17.9	(2.8)	21.9	(2.8)	25.7	(2.6)	16.1	(2.3)	3.2	(1,0)
Finland (Finnish Speaking)	1.2	(2.4)	6.3	\$2,73	15.9	(3.2)	25.7	(1.4)	26.6	(1.1)	12,2	(1.1)	6.0	(0.7)
Finland (Swodish Speaking)	2.3	(2.8)	8.0	0.0	19.5	(2.3)	22.5	(2.4)	24,2	(3.5)	13.6	(1.9)	4.4	(1.1)
Italy (Provincia Abruzzo)	10.1	(3.29	15.8	(2.2)	22.9	(2.6)	26.7	(2.1)	17.2	(2.6)	63	(1.5)	1.0	(0.2)
Italy (Provincia Autonoma di Bolizano)	5.5	(1.2)	10.7	(1.6)	20.1	(2.3)	24.2	(2.5)	21.2	(1.7)	14.4	(1.4)	3.9	(0.8)
Italy (Provincia Basilicata)	6.8	(2.1)	17.8	(2.3)	25.9	(2.6)	243	(3.0)	16.1	(1.5)	7.3	(1,2)	1.8	(0.6)
Italy (Provincia Calabria)	14.1	(2.6)	23.6	(2.5)	30.5	(2.5)	19.6	(2.3)	9.4	(1.9)	2.5	10.60	0.0	c
Italy (Provincia Campania)	143	[2.7]	21.4	(2.1)	28.1	(2.2)	20.8	(2.5)	10.2	(2,0)	4.3	(3.3)	3.0	(0.2)
Italy (Province Errifia Romagne)	5.9	0.61	10.2	0.50	17.9	(2.3)	22.6	(2.5)	21.7	(2.1)	16.3	0.60	5.6	0.0
Italy Provincia Fruil Vinezia Gullut	5.2	(1.5)	2.2	(1.6)	20.6	(2.2)	24.6	(2.5)	22.2	(2.4)	13.2	(1.7)	3.8	(0.8)
Italy (Provincia Lazzo)	3.8	(1.9)	16.8	(1.2)	25.2	(LD	21.2	(1.8)	26.9	(1.2)	2.2	(1.7)	1.8	(0.7)
Bally (Provincia Ligaria)	2.0	(3.5)	16.2	(3.3)	18.2	(2.1)	25.2	(2.6)	20.9	(3.2)	10.1	(2.2)	2.0	00.23
Italy (Provincia Lombardia)	3.2	0.0	9.1	(1,3)	17.6	(2.5)	27.0	(2.4)	25.7	(2.8)	13.2	(2.1)	3.6	00.91
Taly (Provincia Marcho)	4.4	(1.2)	12.0	(2.6)	21.3	12.40	26.7	(2.8)	23.6	(2.2)	10.0	(1.6)	1.9	03.61
July (Provincia Molise)	11.2	0.50	18.7	(1.8)	24.2	D.21	23.5	(2.2)	13.2	(1.7)	7.2	(1.50	1.1	(0.7)
Italy (Provincia Plemonta)	6.5	(1.3)	11.8	(2.2)	20.2	(2.5)	25.0	(2.3)	22.2	(1.2)	10.4	(1.8)	2.7	(0.6)
Italy (Provincia Paulia)	6.0	(1.2)	14.5	(1.8)	24.8	(2.6)	24.6	(2.8)	19.4	(2.7)	8.2	(1.5)	2.7	(1.0)
taly (Provincia Pagita)				(2.5)	26.8	12.70		(2.2)	12.2				0.5	(0.3)
	13.2	(1.8)	19.2				21.4			(3.6)	4.2	(0.49		
Italy (Provincia Sicilia)	16.5	(3.7)	19.8	(2.6)	21.7	(2.2)	19.6	(2.3)	13.6	(2.5)	2.1	(LI)	0.8	(03.5)
Italy (Provinces Toscana)	5.5	(1.3)	13.0	(1.2)	21.7	02.00	23.6	(2.0)	20.3	(2.4)	11.7	(2.4)	2.0	(02.20)
Italy (Provences Trento)	6.0	CLAB	2.2	63.40	15.6	(1.2)	26.3	CELOS	23.Z	(2.4)	11.2	(2.3)	4.6	(1.2)
Italy (Provinces Umbras)	3.4	(E.40	13.5	(3.2)	20.5	(1.6)	21.5	(2.9)	20.1	(2.1)	10.2	(1.8)	2.5	(0.5)
Baly (Provence Valle d'Aceta)	3.0	(1.3)	7.6	(3,3)	23.6	(2.2)	25.7	(1.2)	24.1	(1.f _i)	13.1	(2.1)	2.9	99,59
Italy (Provincia Veneto)	1.4	02.30	11.1	(2.2)	20.0	(2.1)	27.4	(2.3)	22.5	(2.3)	12.1	(2,3)	2.5	(0.5)
United Kingdom (England)	5.0	(2.7)	11.2	(1,1)	22.7	0.49	27.3	(1.5)	20.3	(1.2)	10.5	(1.2)	2.5	59.40
United Krigdom (Northern Insked)	6.1	(2.2)	13.5	(0.2)	23.7	(1.8)	23.6	(3.56	12.6	(1.5)	10.8	(1.6)	2.7	(9.7)
United Kingdom (Walm)	2.4	(8.1)	35.4	D.49	20.5	(1.3)	27.3	(9.5)	10.8	(1.2)	5.7	(0.2)	0.9	(0.4)



[Part 2/2]

						G	ris - Prof	iciency les	rels					
	(fess tha	Level 1 in 157,77 points)	(from 2 less tha	rel 5 57,77 to n 420,07 points)	(from 4 less tha	rel 2 20.97 to n 482.35 points)	(from §	rel 3 82,38 to n 544,68 points)	(from 5 less that	rel 4 44.48 to n 506.39 points)	(from t	rel 5 01,99 to n t69,30 points)	(above	rel <u>6</u> 659.10 points)
	%	S.E.	%	S.E.	%	S.E.	%	S.E.	14	S.E.	%	S.E.	%	S.E.
Adjudicated														
Solgram (Florrish Community)	5.5	(0.5)	9.9	(1,06	16.9	(1.3)	21.9	(1.2)	23.0	(3.3)	16.9	(1.1)	6.1	(02.59
Spain (Andalusta)	15.0	(2.1)	19.7	(2.0)	29.4	(2.1)	23.2	(2.3)	10.1	(2.1)	2.4	(0.0)	0.0	c
Spain (Atagon)	5.9	(1.5)	13.2	(1.9)	21.7	02.49	26.1	(2.2)	21L8	(2.0)	8.6	(1,2)	1.9	(0.6)
Spoin (Asturias)	9.1	0.49	12.5	0.2	22.6	(2.1)	28.4	(1.4)	19.9	(2.40)	5.7	0.40	0.8	(0,5)
Spain (Baleanc Islands)	13.9	(1,80	19.1	(2.5)	27,1	(2.8)	24.9	(2.5)	12.4	12.23	2.4	(1.0)	0.3	(0,2)
Spain (Basque Country)	4.2	(07.6)	9.7	(0.8)	22.0	(1.0)	30.6	(1.2)	22.8	(1.4)	8.8	(0.8)	1.4	(0.3)
Spain (Canary Islands)	20.4	(2.4)	26.9	(2.1)	28.3	(2.3)	17.5	(1.5)	6.1	0:.0	0.7	(0.4)	0.0	-
Spain (Cantabria)	8.6	(1.3)	14.9	(1.8)	23.2	(2:3)	26.1	(1.5)		(2.1)	2.9	(1.5)	1.7	00.60
Spain (Castale and Leon)	6.8	(3.1)	10.3	(1.2)	21.1	(1.5)	29.3	(2.2)	22.7	(2.3)	9.9	(1.5)	1.8	\$0.60
Spain (Catalona)	8.4	(1.2)	12.4	(1.7)	25.7	(2.3)	29.2	(2,2)	17.3	(2.2)	6.2	(1.6)	0.7	(0.4)
Spain (Ceuta and MeNilla)	29.2	(1.2)	23,8	(2.1)	22.9	(2.3)	16.5	(1.5)	6.2	(1.2)	0.8	(0.4)	0.0	
Spain (Calicia)	2.1	(3.4)	15.0	12.00	25.1	(2.7)	29.0	12.59	18.7	(2,2)	4.7	(1.2)	0.4	10.30
Spain (La Rissa)	10.0	0.8	10.5	n.o	20.3	(2.40)	27.7	(2.3)	20.5	(1.9)	8.6	0.40	2.1	50.7
Spain (Madnd)	6.9	0.3	12.8	(3.9)	24.2	(2.11	29.2	12.0b	18.5	(1.9)	6.9	(1.4)	1.5	D.8
Spain (Mercia)	8.8	(2.0)	17.3	12:10	29.0	(2.5)	22.5	(2.5)	13.2	IL6	4.0	(1.3)	0.0	-
pain (Navaso)	6.5	(1,4)	10.1	(1.4)	19.1	0.4	29.7	(2.8)	24.1	0.40	9.2	(1.9)	1.3	40.5
Inited Kingdom (Scotland)	6.5	30.59	14.0	(1.2)	25.9	(1.6)	25.7	(1.6)	18.2	(1.5)	2.4	(1.0)	2.2	(0.5)
Non-adjudicated	-	_	-		-				_	-	-		-	
Religion French Community	14.7	(1.6)	14.5	(3.3)	19.2	0.6	24.2	(1.2)	19.5	(1.2)	6.7	CL.00		10.4
Relgium (Cerman-Speaking Community)	5.4	00.50	9.7	0.0	19.7	0.61	25.5	2.9	28.1	(2.3)	9.8	(1.5)	1.8	10.50
Inland Grensh Speaking	1.2	10.40	5.7	mm.	14.7	(1.0)	28.3	(1.25	29.4	0.49	16.2	(1.1)	4.0	(0.6)
reland (Swedish Speakers)	1.5	40.80	8.0	0.60	19.3	0.00	30.3	0.0	26.1	(2.5)	11.9	(1.80	2.9	(0.9)
taly (Provincia Abruzzo)	8.5	(1.8)	12.8	(2.5)	27.6	(2.6)	26.2	(2.2)	15.5	(2.5)	3.9	0.72	0.4	(0.4)
taly (Provincia Autonoma di Bolzano)	5.5	(1.1)	11.2	0.40	23.0	(1.5)	30.6	(2.2)	20.1	(2.0)	8.0	(1.00	1.3	10.4
taly (Province Baselicata)	9.4	(1.6)	20.1	(2.2)	29.0	(2.6)	26.2	(2.4)	12.4	(1,6)	2.8	(0.7)	0.2	00,21
taly (Provincia Calabria)	14.6	(2.2)	26.8	(2.4)	30.5	(2.3)	19.8	(2.3)	7.0	(1.6)	1.1	0.60	0.0	-
taly (Provincia Campania)	15.4	(2.5)	25.6	(3.3)	30.3	0.00	18.4	(2.7)	7.2	42.00	2.2	(1.3)	0.5	(0.5)
taly (Provincia Emilia Romagna)	10.5	(2.0)	14.9	(2.5)	20.8	(1.5)	25.9	(3.2)	19.0	(2.0)	2,2	(1.4)	1.1	00.60
Salv (Provincia Friuli Winezau Grafia)	3.8	(1.6)	10.3	(2.4)	21.1	(2.D)	30.4	(2.6)	22.7	(2.3)	7.9	41,30	1.7	00.71
taly (Provincia Lazio)	9.9	(2.0)	13.8	(2.1)	28.7	(2.3)	24.1	(2.6)	14.0	(2.6)	3.3	(1.1)	0.2	(0.3)
taly (Provincia Ligaria)	5.4	(1.5)	13.3	(2.2)	26.2	CLD	31.3	(3.0)	17.0	(2.50	5.0	(1.3)	0.8	12.40
taly (Provence Lombarde)	5.9	(2.0)	8.7	(1.5)	23.1	0.40	29.5	0.0	23.9	(2.2)	9.2	(1.5)	1.2	40.60
tidy (Provencia Marchi)	7.2	(1.1)	12.9	(7.6)	23.3	(2.7)	29.8	(2.7)	12.2	0.0	5.5	0.30	0.9	10.53
aly (Provincia Molise)	9.7	(L4)	18.8	(2.2)	23.3	(3.1)	29.3	(3.1)	11.1	D2.50	1.6	(0.8)	0.0	200
taly (Provincia Parmontat	10.2	(2.0)	163	02.25	23.2	9.30	25.5	92.20	18.8	D-10	5.1	(LI)	1.0	10.4
taly (Provincia Puello)	7.8	(1.2)	16.4	0.0	26.5	(2.2)	25.8	(2.2)	11.8	12.40	5.6	(1.8)	1.1	10.5
tidy (Provencia Sardiama)	12.0	(2.5)	20.6	0.50	30.9	(2.5)	23.1	(2.2)	11.4	(1.5)	1.5	(0.7)	0.0	
taly (Provencia Sicilia)	11.2	(2.2)	23.3	0.5	29.5	(2.3)	21.6	(2.5)	3.7	(2.3)	2.6	(1.7)	0.3	80.7
taly (Provincia Toscana)	7.0	(3.3)	14.2	(2.3)	23.8	(2.2)	30.5	(2.8)	18.3	(2.3)	5.0	(1.3)	0.5	10.5
taly (Provencia Josepha) taly (Provencia Tronto)	4.2	(1.1)	10.7	(1.2)	21.3	(2.4)	11.4	(2,8)	22.5	(2.3)	2.0	0.30	1.0	10.60
taly (Provincia Iterati)	8.7	(1.6)	16.9	(2.2)	24.3	(2.5)	27.7	(2.6)	16.6	(1.7)	4.8	0.0	0.9	10.4
ony (Provincia Cimbria) taly (Provincia Valle d'Aceta)	6.0	(7.46	14.1	(2.2)	27.5	(2.2)	25.3	(2.3)	18.2	DL2	5.0	0.30	1.0	10.5
taly (Provincia Veget (27/2012)	5.0	(7,86	12.2	(2.0)	22.4	(2.2)	29.5	(2.2)	20.6	(2.8)	5.8	(1.3)	1.4	10.7
ory (movercia venera) United Kinadom (England)	7.1	10,73	15.4	(1.3)	26.8	(1.5)	27.8	(1,7)	15.8	(1.4)	6.0	00.76	1.0	60.33
Jorda Kingdom (Organia) Jorda Kingdom (Northum Indiand)	6.0	(1.0)	16.3	(1.5)	25.6	(1.5)	26.1	(1.4)	18.2	(1.3)	6.2	(1.2)	1.0	(0.6)
United Kingdom (Natham Balanta)	2.3	(1.0)	20.3	0.40	30.3	(1.6)	24.2	(1.3)	11.7	(1.2)	3.2	00.60	0.3	10.2

Note: See Table 1.3.2 for national data. Start.fee: https://doi.org/10.2187/888932343304



[Part 1/3]
Mean score, variation and gender differences in student performance on the mathemati

		All si	udest:			Cer	der d	See	oces							Perce	ntiles					
	Me			dard	84	nys.	G	rk	Dillie (3 -	rence - G)	5	th	14	ch.	25	th	75	th	96	ch	95	ith
	Moan	S.F.	SD.		Mean	SE	Mean		di.	SE		SE	Score	S.F.	Score	S.F.	Score	S.F.	Score	86	Score	51
Adjudicated																						
Religion (Flemsh Community)	537	0.19	72	0.00	546	0.8	527	93.29	19	6.2	366	(2.9)	-600	(5.6)	466	8.9	683	(3.6)	663	0.23	689	660
Spran (Andoloxia)	482	(5.2)	82	0.73	424	5.9	445	24.73	26	G.R	307	01.5	344	(0,2)	404	B-1)	524	13.50	575	8623	600	07.0
Spaan (Azagon)	506	0.25	35	9350	515	22	496	59	.19	(2.3)	340	(103)	379	67.00	443	15.89	573	15.80	626	(6.7)	656	728
Spiran (Asturba)	494	(4.6)	34	(2.5)	439	5.6	487	52	12	6.0	324	853	367	BLD)	435	6.7	560	5.9	647	(6,2)	633	05.0
Spain (Baleano Manda)	464	8.5	33	(2.7)	475	25.00	454	5.7	21	6.9	305	0.2	342	8.0	405	15.49	531	8.7	580	(3.5)	606	(6.3
Spain (Rosque Country)	510	0.0	87	0.00	533	GB	305	26		0.3	125	(7.3)	336	6.0	455	0.6	570	0.10	618	(2.0)	644	0.3
Spain (Carery Islands)	415	(4,3)	82	(1.9)	40	(4.T)	406	14.95	17	(3.9)	300	19.6	328	(6.1)	375	0.50	494	H.30	541	(6.9)	560	(5.5
Soun (Cantaliria)	495	6.0	95	0.0	323	5.25	496	5.0	17	6.0	335	(7.2)	170	6.71	411	0.00	962	6.5	616	(7.1)	645	07.4
ican (Castile and Legal)	514	(5.8)	92	(2.2)	522	IS.RI	307	6.20	34	6.8	356	f12.29	392	(7.7)	455	B-29	577	(5.6)	629	(7.1)	657	(7.4
Spain (Catalonia)	496	(6-0)	90	(2.2)	906	65.4	485	6.73	22	40	335	0.2	377	(39)	439	17.40	558	16.50	609	(7.5)	636	65.9
Spain (Ceuts and Melilla)	417	0.4	101		472	G.M	412	0.9	33	64.62	255	05.75		(4.9)	346	(3,8)	490	H-60	549	06.40		(7.5
Spoin (Gallicia)	489	(4.3)	A4	0.60	496	14.53	494	5.20	- 11	MR	365		380	(5.9)	435		550	HJ60	594	(5,0)	617	GA
Spain (La Riosa)	504	(2.7)	101	0.7	513	BA	494	0.6	19	66.70		(113)		(7/8)	440	529		6(1)	628	(6,2)	660	053
Spain (Madnd)	496	14.40	-	(2.1)	902	5.0	491	5.60	11	60	149	(7.7)	380	(5.5)	438	(5.5)	557	(5.1)	608	(6.8)	634	(5.8)
Spain (Marcia)	470	(5.6)	-	0.0	416	(5.8)	469	57		96.40	334	93		(63)	472	(7.6)		Ba0	585	66.13		(5.1
Spein (Naverre)	511	3.6	-	0.30	518	Bid	504	840	14	6.3		02.29	370	0.3	456	15.40	574	HUB	618	(2.0)	641	06.6
Julied Kingdom (Scotland)	499	0.30		6.0		8.3		6.8													651	
	1	_		_		_	-	_	_					_	-						10000	_
Non-adjudicated Selgum (Fernich Community)	400	0.9		Q.(h)			476	8.0	25	6.0	308	mo	HS	(6-9)		(5.9)	966	H-0	617		614	
Selgum (German Speaking Community)		(2.9)	86	0.89	523		511	0.9	51	5.0	365	0.9					582		625			
origina (Cereminopeaking Community) Inland (Firmeth Speaking)	517	(2.3)		0.20	543	B.40	511	0.75	3	0.5	400	(4.9)	432	0.8	455	6.0		B.I)	605	(3.3)	651	(5.2
		0.9																				Q.
Finland (Swedish Speaking)	527		81	0.2	528	D.S.	525	0.70	2 8	5.10	392	58	421	BLD	471	(4.1)	582	15.06	630	(6.5)	656	(6.7
taly (Province Abruzzo)	476	(6.7)	85	(5.2)	480		401			05.30		620		6.0	417	(5.2)	538	6.3		01.3)	612	
taly (Provincia Autonoma di Boltono)	507	(3.2)	90	<u>(3.1)</u>	515	82	499	2.0	.16	8,0		0.28	390	(B.7)	449	50	570	0.3)	623	0.4	650	(8.0
taly (Province Busilicate)	474	(4-0		2.0	484	5.0	464	(1.5)	29	(0.5)	340	(7.5)	367	(7.9)	415	0530		5.0)	584	06.60	615	080
taly (Provincia Calabria)	442	(5.1)	29	230	445	(5.1)	438	(5.7)	8	(6.3)	317	(5.3)	341	(6.7)	387	(6.1)	495	(5.4)	546	(2.5)	577	(B.7
taly (Provincia Campania)	447	98	90		452	8.6	439	89	13	8.9		Geo	339	(2.1)	388	(E.I)		23		(119)		Daa
taly (Province Errife Romagna)	508	(4.7)	58	0.7)	522	数次	494	5.3	18	@.Q		OL S		ധമ	435	(7.9)	574	54	627	150	655	05.9
taly (Provincia Enuli Venezia Giulia)	510	(1.6)	58		514	5.8	505	5.9	9	60		01.6		(0.1)	450	5.4		(4.5)	622	(6,0)	649	060
taly (Provincie Lazio)	473	(5.5)	88	640	480	15.6	464	5.7	.16	66.10	330	(8.5)	358	(6,3)	412	15,49	535	(8.7)	589	(9.4)	617	03.0
taly (Province Ligura)	491	(9.3)	90	组的	497	049	485	5.5	11	05.23	335	05.4	370	(13.8)	432	(13.2)	554	\$5.80	601	(7.5)	633	0.5
taly (Provincia Eombarda)	516	(5.6)	86	60	523	(2.1)	508	22	16	9.9	361	0249	399	(02.5)	459	60	577	0.9	623	(6.1)	650	(5.9
taly (Provincia Marche)	499	(4.5)	58	0.39	507	0.5	488	0.5	19	0.3	349	(00.5)	384	(6.2)	443	(6.3)	559	5.4	605	(5.4)	631	(5.8
taly (Provincia Molise)	467	0.7	85	0.0	472	8.9	461	30	.11	(6.3)	323	83	355	540	410	0.99	525	6.4)	578	(6.7)	608	nos
taly (Provincia Piemorte)	493	(5.0)	93	(2.7)	505	2.9	481	631	24	(7.1)	335	02.0	369	(10.2)	431	(7.4)	559	(6.3)	600	(63)	638	(5.5
taly (Province Puglis)	488	(5.3)	88	0.0	495	0.25	461	8.13	.13	6.9	344	(0.3)	374	(3.1)	427	زقيق	550	(11.0)	604	(0.1)	634	no.
taly (Provincia Sardeana)	456	(5.25	85	G.A	439	5.8	454	5.8	6	7.8	311	(13.9)	347	(7,5)	401	16.35	514	(3.5)	566	(4.9)	593	(5.3
taly (Province Sicilia)	450	8.8	98	881	454	(10.66	407	8.6	- 6	004	291	(20.5)	334	01.8	352	(8.3)	515	8.00	574	0.80	605	0.6
taly (Provincia Toscana)	493	15/9	90	34	508	15.31	485	6.5	26	0.9	339	6.0	374	(7,6)	434	07.00	557	07.35	608	(9.2)	639	(8.6
taly (Province Trento)	514	0.5	86	GD	522	(40)	506	5.23	16	0.9	366	IBO	400	(5.2)	457	1680	574	0.30	623	(3.8)	652	(90
taly (Provincia Umbna)	486	F4 10		927	014	95.20	428	144	26	00	331	(5-6)		17.00	422	15-40	551	14.40	663	(5.5)	632	076
taly (Provincia Valle d'Aosta)	502	(2.3)	80	0.20	522	03.20	483	0.4	19	64.80	357	0.5	190	07.49	444	(5.1)	565	D.50	614	8.0	642	10.0
taly (Province Veneto)	508	D.49	85	(20)	515	0.10	501	0.54		COLOR		61.71	395	8.0	442	(7.5)	568	D7.30	619	(7.4)	647	07.8
Inited Kinerium (England)	493	12.95	87	0.53	506	0.90	483	0.9	21	/S 30	349	(9.3)	183	65,11	435	0.0	552	0.50	600	(4.5)	634	0.5
Jerted Kingdom (England) Jerted Kingdom (Northern Indiaed)	492	0.10		0.0	501	5.5	484	140		0.8	348	(4.2)		(4.6)		16.0		0.60	608	(5.1)		(5.0
Linted Kingdom (Notice)	472	0.0	82	0.0	982	84	462	(3.25	29	0.5	336	531		(4,6)	417	0.40	528	D.60	578	(61)	607	(4.5

Note: See Table 1.3.3 for national data.
Values that are substitutely significant are indicated in bold (see Annex A3)
Seart Link Region https://doi.org/10.1397/98933343304



[Part 1/1]

							,			ince sc				
							Proficie	ncy levels						
	(fess tha	Level 1 in 334.94 points)	(from 3 less tha	rei 1 24.54 to n 409.54 points)	(from 4 less tha	rel 2 09.54 to n 484.14 points)	(from 6	rel 3 84.14 to n 358.73 points)	(from 5 less tha	nd 4 58,73 to n 633,33 points)	(from t less tha	rel 5 33,33 to n 707,93 points)	(above	el 6 707.93 points)
	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.L.	%	S.E.	%	5.6.
Adjusticated														
Belgum (Flomoh Community)	3.8	(92.5)	2.1	(03.50)	19.1	(0.8)	27.6	(1.43)	24.9	(1.0)	12.0	(0.9)	1.5	(0.3)
ipsin (Andalassa)	2.0	CLUE	14.9	(2.40)	11.2	(1.4)	29.5	(12)	13.2	(2.5)	2.1	(0.4)	0.0	
Speen (Aragon)	3.5	(02.7)	10.3	(1,3)	21.8	(1.7)	34.5	(1.2)	22.8	(1.1)	4.0	(0.9)	0.4	(0.2)
Spain (Asturizis)	4.5	(07.8)	11.9	(8.3)	23.2	(1.5)	32.5	(1.1)	21.2	(1.6)	5.8	(1.1)	0.4	(2.3)
ipain (Baleanc Islands)	8.3	(1.2)	18.2	(2.0)	11.3	(2-1)	27.3	(0.3)	12.2	(1.49	3.5	(0.8)	0.1	(0.1)
Ipan (Basque Country)	2.6	(02.5)	11.2	60.00	29.4	0.60	35.9	0.40	17.7	(1.0)	3.1	(0.4)	0.2	(0.1)
ipain (Canary Mands)	9.4	(3.3)	22.3	(7.49	31.5	(1.5)	25.3	(3.2)	9.6	(1.30	3.2	(0.4)	0.0	0
Spain (Cantabra)	4.0	(0.7)	32.2	(3.2)	25.3	(1.6)	31.4	(1.5)	20.9	(1.2)	5.6	(0.9)	0.6	(0.3)
Spain (Castile and Leon)	2.5	(02.5)	8.3	(1.1)	22.0	(1.6)	34.6	(1.4)	24.0	ILS)	7.5	(1.3)	0.6	(02.3)
Spain (Catalonia)	3.9	(1.0)	12.4	11.49	21.5	0.50	32.5	(2.1)	21.0	(1.9)	44	(1.1)	0.3	(0.3)
Spain (Cruss and Mehlla)	25.0	(3,2)	23.5	0.40	26.3	(7.46)	18.7	(1.69	7.8	(8.9)	1.6	(0.5)	0.1	(9.3)
Spale (Galicia)	3.0	69.60	10.3	0.10	24.0	(1.4)	34.5	(1.8)	22.6	(2.0)	5.3	(1.00	0.3	60.20
Spain (La Rioja)	3.9	(0.7)	10.2	(1.3)	22.1	(1.8)	33.2	(1.3)	23.7	0.40	6.5	(0.3)	0.5	(0.3)
ipan (Madod)	2.6	90.69	10.5	(0.2)	26.5	(1.51	33.2	11.40	22.7	(1.0)	5.2	(1.1)	0.4	(0.2)
Spain (Murray)	4.2	(3.69	15,5	0.40	29.1	CLAS	31.2	(ILE)	14.5	(1.50	2.7	(02,4)	0,0	0
Span (Novame)	2.6	89.50	10.2	(1.2)	25.3	0.40	32.4	0.0	23.5	(1.4)	5.4	80.73	0.6	(0.3)
United Kingdom (Sootland)	3.1	(0.4)	11.0	(0.0)	25.0	(1.2)	28.9	(1.0)	22.0	(LJ)	9.3	(0.5)	1.7	(0.3)
Non-adjudicated					7						7	-		
Relgium (French Community)	9.7	(1.1)	15.0	0.0	22.6	(3.2)	26.6	(11.3)	20.6	(1.2)	5.3	(0,7)	0.5	(0.2)
Selgum (German-Speaking Community)	2.3	(0.6)	9.7	(1.2)	22.1	(1.96	30.2	(1.5)	26.0	(1.45)	8.9	(12)	0.7	(0.4)
inland (Furnish Speaking)	1.1	(0.2)	4.8	(0.40	14.8	(0.8)	28.5	(1.0)	31.5	(1.2)	15.8	10.80	3.4	(0.40
Inland (Swedish Speaking)	1.5	(0.5)	7.3	(0.5)	21.8	(3.2)	31.4	11.40	26.9	(1.6)	9.3	43,00	1.6	(0.4)
taly (Provincia Abruzzo)	5.7	(1.3)	15.6	(1.2)	28.4	(2.3)	30.5	(1.6)	16.2	(1.9)	3.2	99.50	0.2	(0.2)
taly (Provincia Autonoma di Bolgano)	3.1	19.73	9.9	(63,85)	22.4	(1.5)	33.4	(1.7)	22.2	(1.2)	6.1	40.89	0.6	80.30
taly (Provincia Basilicata)	6.3	63.00	20.3	0.40	31.0	(3.4)	27.9	CLAS	12.0	11,40	2.4	(0.5)	0.0	- 0
taly (Provincia Calabra)	10.8	(1.7)	24.3	(1.2)	33.1	(2.0)	22.4	(1.3)	8.2	(1.1)	1.1	(0.3)	0.0	
taly (Provincia Camponia)	11.3	(2.1)	22.0	(1.5)	31.4	(1.5)	24.0	(1.9)	9.6	£11.23	1.6	(0.5)	0.0	
taly (Provincia Emilia Romagna)	5.3	(1.2)	10.7	(1.2)	22.4	(1.7)	29.0	(2.3)	23.3	(1.E)	8.5	11.20	0.8	(0.3)
taly (Provincia Friuli Venezia Guilla)	3.2	(3.3)	7.9	(3.2)	20.2	(1.8)	31.8	(2.0)	25.6	£1.5)	10.1	(1.1)	1.2	(0.5)
taly (Provincia Lazio)	5.4	(1.05	16.0	(3.2)	27.8	(2.2)	30.3	(1.2)	17.0	(1.5)	3.4	(0.9)	0.0	
taly (Provincia Liguria)	5.5	(1.8)	11.9	2.0	23.3	(2.1)	33.2	(2.5)	19.5	(2.1)	5.1	(1.2)	0.5	10,33
taly (Provincia Lombardia)	3.3	(3.66	2.2	(2.5)	18.1	(2.0)	33.2	(1.8)	27.3	12:00	9.4	(1.2)	1.1	(0.4)
taly (Provincia Marche)	3.6	(2.0)	11.8	(2.4)	23.3	(2-1)	32.6	(2.3)	22.4	(1.7)	5.2	(0.9)	0.5	(0.2)
aly (Provincia Molise)	6.3	(3.6)	16.8	11.49	32,3	0.0	30.6	(1,2)	11.9	0.0	2.1	00.51	0.0	
taly (Provincia Piemorne)	4.3	(2.0)	12.6	13.59	25.5	0.80	29.6	(3.8)	22.3	(1.2)	6.1	00.50	0.6	40,33
taly (Provencia Puglis)	4.8	(1.1)	14.0	0.50	27.6	(2.3)	29.8	(1,2)	18.9	(1.9)	4.5	(1.1)	0.4	10.33
taly (Provincia Sankona)	6.0	(1.2)	17.3	(1,2)	30.3	(2.0)	29.1	(11.6)	14.1	(1.40	3.2	00.75	0.0	
aly (Province Sicilia)	11.7	(2.2)	25.0	0.60	28.3	0.0	26.0	12.60	10.8	(1.2)	2.1	(0.7)	0.0	
aly (Provincia Toscana)	4.5	(3,3)	12.8	0.3	26.7	(1.6)	30.8	(2.0)	20.2	D.21	5.4	(1.4)	0.2	(0.4)
taly (Provincia Treme)	2.8	10.70	9.2	(1.2)	20.5	(1.4)	30.9	0.6	24.9	0.0	10.2	(1,00	1.4	(0.5)
taly (Provincia Umbria)	5.2	(1.3)	12.6	(1.3)	24.9	(1.6)	30.2	(3.5)	20.7	(1.5)	5.8	00,88	0.6	(0.3)
taly (Provincia Valle d'Aosta)	2.4	80.70	8.4	(LI)	21.3	0.21	33.2	(2.0)	25.5	0.9	8.1	00.90	1.1	60.40
taly (Provincia Veneto)	2.4	80.75	9.3	OLE)	21.3	(2.3)	33.3	(2.1)	24.7	(1.5)	8.3	(3.2)	0.7	60.30
Inted Kingdom (England)	3.8	80.40	11.0	0.81	27.3	00.51	28.8	(1.2)	22.5	0.00	9.2	(0.7)	1.9	60.30
United Kingdom (Northern Ind) and	4.4	(3.25	12.3	(0.5)	21.8	G-13	28.2	(1.5)	21.6	D.1)	9.7	(1.1)	2.1	60.40
United Kingdom (Wales)	48	40.60	13.9	0.0	26.3	(3.2)	29.2	(LD	18.1	m.91	6.8	02,60	1.0	(0.2)



[Part 1/2]

Table S.I.w	Perce	ntage o	f stud	ents at	each p	roficie	ncy le	rel on t	he scie	ence sc	ale, by	gende	r	
						84	ys – Proć	iciency le	rels					
	dess the	Level 1 in 334.94 points)	(from 3 less tha	rei 1 34.94 to n 409.54 points)	(from 4 less tha	rel 2 09.54 to a 484.14 possits)	(from 4 less tha	rel 3 84.14 to a 558.73 points)	(from 5 less tha	rel 4 158.73 to n 633.33 points)	(from the	vel 5 33,33 to a 707.93 points)	(above	el 6 707.93 points)
	55	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.L.	%	S.E.	%	S.L.
Adjusticated														
Belgum (Flomob Community)	3.8	(0.4)	9,1	(1.1)	19,0	(1.4)	26.2	(1.2)	26.5	(1.2)	13.1	(1.2)	1.9	(0.5)
Spain (Andalasa)	5.4	(1.49)	15.7	(2.9)	29.0	(2.1)	30.5	(2.1)	15.1	(1.5)	3.3	(1.1)	0.0	c
Speen (Azagon)	3.9	(1.1)	16.4	(2.5)	21.8	(2.1)	33.8	(2.5)	23.5	(2.40)	61	(1.2)	0.5	(0.5)
Spain (Neturian)	4.4	(1.1)	12.2	(1.7)	20.6	(2.1)	31.1	(2.2)	23.6	(2.4)	7.6	(1.6)	0.5	(0.5)
Spain (Balanic Islands)	59	(1.9)	17.3	(2.2)	29.6	(2.7)	25.0	(2.1)	13.9	(1.8)	2.2	(0.8)	0.1	(0.2)
South (Basque Country)	2.7	(02.61)	11.7	(1.2)	27.6	(1.2)	34.0	(1.2)	19.5	(1.3)	4.0	(0.6)	0.3	(0.1)
Spain (Canary Mands)	6.3	(3.3)	22.2	(3.9)	29.5	(3.9)	25.8	(2.2)	11.6	(7.50	23	(0.41)	0.0	
Scarn (Cantabna)	4.0	0.0	11.6	17.69	23.6	(2.1)	30.3	(2.1)	22.9	[2-1]	6.6	0.0	0.9	10.59
Spain (Castile and Leon)	2.9	60.60	10.0	(1.6)	199	(1.7)	32-2	(2.1)	25.4	(1.9)	8.7	(1.4)	0.9	(0.4)
Smin (Catalonia)	3.8	(8.2)	12.1	11.70	23.3	(2.3)	32.1	(2.7)	22.9	(2.2)	5.4	(1.5)	0.3	10.43
Spain (Cruss and Mehlib)	26.0	(1.0)	21.2	(1.9)	24.4	(2.3)	18.0	(1,6)	8.4	(1.2)	1.8	(0.9)	0.0	6
Scale (Calicia)	3.8	(0.3)	10.3	(1.6)	24.0	(2.3)	32.1	(2.3)	23.4	(2.7)	0.2	(1.2)	0.0	10.33
	4.1	00.59	10.9	(1.6)	21.6	(2.7)	31.1	(2.5)	23.5	(2.1)	6.1		0.6	
Spain (La Riop)												(1.2)		(0.4)
Spain (Madnd)	3.3	(1.0)	11.2	(1.6)	23.5	(2.2)	30.6	(2.2)	243	(21)	6.6	(1.3)	0.5	(0.3)
Spain (Murra)	2.7	(0.9)	13.7	(1.7)	27,4	(2-3)	31,6	(2.3)	20.4	(2.7)	3.9	(1.09	0.0	C
Spain (Novame)	2.4	(0.7)	10.1	(1.5)	24.0	(2.4)	31.6	(2-2)	24-6	(1-7)	6.6	(1-1)	0.9	(0.5)
United Kingdom (Soutland)	3.3	(0.6)	10.6	(1.2)	22.5	(1.4)	28.5	(1,3)	22.8	(1,7)	10.4	(1.3)	2.0	(0.4)
Non-adjudicated					8			-						
Belgium (French Community)	16.3	(1.9)	14,1	(1.3)	21.3	(1.6)	25.2	(1.6)	21.7	(1.9)	6.8	(1.00	0.6	(0.30
Belgum (Gernan-Speaking Community)	24	(3-1)	11.2	(1.6)	22.3	(2.5)	27.5	(2.5)	25.7	(2-0)	167	(1-6)	0.0	
Finland Finnish Speakings	1.3	(0.30	6.0	(0.7)	17.2	(1.1)	28.5	(1.7)	28.8	(1/7)	14.8	(1,00	9.3	(0.4)
Finland (Swedish Speaking)	2.2	(0.9)	8.4	(1.5)	23.9	(2.6)	29.4	(2.1)	25.8	(2.7)	8.4	(1.7)	1.6	(0.7)
Italy Provincia Abruzzoi	5.9	(1.0)	16.9	(2.1)	291	(2.7)	26.7	(2.1)	16.0	(2.5)	3.1	(1.1)	0.3	(0.30
Italy Provincia Autonoma di Bolganoli	3.4	(7.6)	10.6	(1.5)	22.4	(2.4)	30.9	(2.7)	21.9	(1.8)	9.8	10.50		10.53
Italy (Provincia Basilicata)	6.4	(1.7)	21.4	(2.6)	29.7	(7.5)	25.9	(2.6)	13,1	(1,6)	3,3	(0.8)	0.0	6
taly (Province Calabra)	12.5	(2-4)	26.9	0.0	11.0	(2.5)	20.6	(2.1)	7.4	(1.5)	14	(0-5)	0.0	c
Isaly (Provincia Camponia)	13.7	(2.7)	24.0	(2.3)	300	(2:1)	21.3	(2.4)	9.4	(2.40	1.5	(0.7)	8.0	c
Italy (Province Emilia Romegne)	43	(1-2)	9.3	(1.4)	213	(2.3)	28.3	(2.7)	24.6	(2.2)	10.6	(1-6)	1.2	(0.5)
Italy (Province Fruit/Venezia Guita)	44	(3.6)	16.2	(1.6)	19.6	(2.0)	29.4	2.9	23.9	(2.1)	11.3	(1.4)	1.3	40,53
Italy (Provincia Lazio)	5.0	(1.1)	17.6	(2.6)	28.2	(2.5)	27.9	(2.3)	12.1	(1,6)	4.1	(1.1)	0.0	0
Italy (Provincia Uguna)	6.9	(2.8)	13.9	(2.9)	22.6	(2.2)	29.9	(3.1)	18.7	(3.2)	72	(1.9)	0.7	(0.4)
Italy (Provencia Lombardia)	4.1	(1.3)	8.1	(1.6)	16-8	(2.8)	31.7	(2.3)	26.7	(3-2)	11.2	(1.8)	1.4	(0.5)
Italy (Provincia Marche)	3.5	(1.3)	13.0	(4-0)	23.3	(3.0)	31.7	(3.7)	21.8	(2-8)	6:0	(1.1)	0.7	(0.4)
Italy (Provincia Molise)	7.2	(1.3)	16.9	(2.0)	311	(2.6)	28.3	(2.5)	13.2	(1.9)	3.3	(1.0)	0.0	c
Italy (Provincia Piemonte)	3.3	(0.8)	11.3	(1.8)	23.7	(2.5)	29.4	(2.3)	23.9	(2.2)	7.6	(1.5)	0.8	(0.4)
Italy (Provincia Puglis)	5.1	(1.9)	14.1	(1.8)	26.6	(2.9)	28.4	(2.3)	19.6	(2.3)	5.6	(1.4)	0.5	(0.4)
Italy (Provincia Sardogna)	7.0	(1.6)	17.2	(2.4)	30.9	(2.2)	27.3	(2.1)	13.5	(1.8)	3.8	(1.1)	0.0	c
Italy (Provincia Sicilia)	14.1	(3-2)	21.8	(3-1)	253	(2.5)	23.2	(2.5)	12-6	(1-8)	2.8	(1.0)	0.0	0
Italy (Provincia Toscana)	4.8	(1.8)	13.9	(2:3)	25.2	(2.5)	27.7	(2.7)	19.4	(2.5)	8.0	(1.8)	1.0	(0.6)
Italy (Provincia Trento)	2.6	(0.8)	10.1	(1.4)	20.1	(1.9)	28.9	(2.4)	23.5	(2.5)	12.3	(1-4)	2.4	(0.5)
Italy (Provincia Umbria)	6.7	(1.7)	13.5	(2-0)	23.4	(1-5)	28.1	(2.3)	20.3	(2:3)	7.0	(1.3)	0.9	(0.6)
Italy (Provincia Valle d'Aosta)	2.9	(1,0)	2.4	(1.6)	18.4	(2.5)	30.9	(2.6)	28.0	B-51	10.8	(1.5)	1.5	(0.7)
Italy (Provincia Veneso)	2.7	(1,0)	10.6	[2,4]	21.8	(2.4)	30-8	(2.8)	24.4	(3.1)	9.1	(1,6)	0.7	(0.5)
Unted Kingdom (England)	40	(0.7)	10,3	(1.0)	21.6	(1.3)	27.5	(1.5)	23.2	(1.5)	108	(1.1)	2.5	(0.4)
Unted Kingdom (Northern Indone)	52	(1.9)	12.0	(1.7)	21.7	(2.2)	25.6	(1.9)	21.9	(1.9)	10.9	(1.80	2.8	(0.7)
United Kingdom (Wales)	54	10.59	13.3	0.49	263	(1.2)	28.6	(1.6)	19.1	(1:3)	81	(1.0)	1.3	(0.4)
Critica Airgoom (Willis)	3.4	(ucb)	13.3	0.049	243	(1-7)	_ adub_	(1.6)	15.1	(1:3)	: 61	51.00	6,3	(0.4)

Note: See Table 1.3.5 for national data
Schot. Note: See Table 1.3.5 for national data
Schot. Note: See Table 1.3.5 for national data



[Part 2/2]

						G	rk – Prof	iciency les	rels					
	(fess the	Level 1 in 324.94 points)	(from 2 less tha	el 1 34.94 to n 409.54 points)	from 4 less that	el 2 09.54 to n 484.14 points)	(from 4 less tha	nd 3 84.14 to n 558.73 points)	(from 1 less tha	rel 4 38.73 to n 633.33 points)	(from 6 less tha	rei 5 333.33 to n 767.93 points)	(above	rel 6 707.93 points)
	76	S.E.	2-	S.E.	%	S.E.	%	S.E.	5	S.E.	%	S.E.	%	S.E.
Adjudicated														
Belgum (Floresh Community)	3,5	(0.6)	9.0	(1.0)	19.2	(1.2)	29,2	(1.4)	26.9	(1.4)	100	(1.4)	1.1	(0.3)
Spran (Andalusis)	7.6	(1.5)	183	(2.4)	33.6	(2.5)	26.3	(2.6)	11.0	(2.0)	1.2	(0.5)	0.0	0
Spum (Aragon)	1.0	(0.6)	102	(1.5)	25.7	(2.3)	35.2	(2.1)	22.0	(2.2)	3.7	(1/2)	0.0	c
Sprin (Asturus)	4.7	(1.0)	11.5	(1.5)	26.1	(2.49	34.0	(2.2)	19.5	(2.3)	3.5	(0.9)	0.4	(0.4)
Spran (Balearic Islands)	7.6	(1.9)	20.2	(2.5)	34.2	(3.4)	26.6	(3.6)	10.5	(2.0)	0.9	(0.5)	0.0	c
Speen (Basque Country)	2.5	[0.5]	10.7	(0.0)	31.0	(1.4)	37.9	(1.7)	15.7	(1.3)	2.1	(0.5)	0.0	c
Spoin (Carpry Islands)	10,7	(2.1)	22.5	(2.8)	33.7	(2.7)	24.5	(2.0)	7.3	(1,3)	10	(0.40)	0.0	c
Spein (Cantabra)	4.1	(0.9)	12.7	(3.49)	26.9	(2.3)	32.6	(2.4)	18.8	(2.3)	4.5	[1.2)	0.3	60.21
Spoin (Castile and Leon)	2.1	(0.49)	7.9	(1.3)	24.1	(2.3)	36.9	(2.0)	22.7	(2.2)	6.1	(1.3)	0.3	(0.3)
Spoin (Catalonia)	3.9	(1.1)	12.7	(2.9)	27.8	(2.3)	33.0	(2.6)	18.9	(2.3)	3.4	(1.1)	0.3	(0.3)
Span (Ceuta and Mehilla)	22.1	(1-7)	258	(2.2)	24.2	(2.3)	19.3	(1.5)	7.2	(1.3)	1.4	(0.5)	0.0	
Spain (Galleta)	2.2	69.73	10.3	(1.5)	23.9	0.0	36.5	(1.9)	21.6	(2.5)	4.6	(1.2)	0.0	-
Spain (La Ribea)	3.6	(1.1)	9.4	(1.3)	22.5	(2.3)	35.4	(2.5)	24.0	(2.0)	4.7	(1.2)	0.0	
ipam (Madrid)	1.5	60.63	9.7	(7.49	25.5	(2.5)	36.7	(2.3)	21.0	(2.3)	49	0.49	0.3	(0.3)
Coin (Marcio)	5.6	(1.5)	17.2	(1.9)	30.6	(2.2)	31.5	(2.5)	13.2	(2.2)	7.6	(0.5)	0.0	
Sport (Nanome)	2.7	(0.9)	10.3	(7.5)	26.8	(2.7)	33.2	(2.6)	22.5	(2.1)	4.1	(1.0)	0.5	(0.3)
United Kingdom (Scotland)	2.9	(02.6)	11.5	(1,2)	25.6	(17)	29.2	(1.3)	21.2	(1,5)	5.2	(1/3)	1.4	(0.4)
Non-adjudicated				-					-					
Belgrum (French Community)	9.0	(1.4)	15.9	(3.2)	23.9	(1.5)	26.0	0.6	19.0	0.49	1.5	(0.7)	0.4	90.21
Jelgum (German-Speaking Community)	2.1	(0.4)	8.2	(1,7)	22.0	(3-6)	33.1	(2.6)	26.5	(2.49)	7.1	(1-6)	1.1	10.60
Inkind (Ferrsh Speaking)	0.9	00,25	3,5	(0.5)	12.4	(11)	28.7	(1,3)	343	(1.29	16.8	(1.0)	3.5	10.5
inland (Swedish Speaking)	1.0	(0.5)	6.1	(7.1)	19.9	0.8	33.4	(2.4)	28.0	(2.5)	10.3	(1.8)	1.3	10.7
taly (Provency Abruszo)	5.6	(2.3)	14.2	(2.0)	27.7	(2.9)	32.5	(2.5)	16.5	(2.6)	3.4	(1.0)	0.0	
Italy (Provincia Autonoma di Bolgano)	2.8	62.91	9.3	[1.0)	22.5	0.61	35.9	(1,9)	22.6	(1.6)	6.5	(1.1)	0.5	(0.3)
Italy (Provincia Basilicata)	6.3	(1,1)	19.1	(2.1)	32.4	(2.0)	301	(2.2)	10.7	(1.4)	1.4	(0.5)	0.0	6
toly (Proyncy Calabra)	9.1	17.99	21.7	0.6	35.1	(2.5)	24.1	(2.5)	9.1	(1.6)	0.0	(0.4)	0.0	
taly (Proxincia Campania)	6.7	(1.7)	19.6	(2.6)	33.4	(3.1)	27.6	(24)	9.8	(2.2)	1.6	(0.7)	0.0	
taly (Provincia Errifio Romagna)	6.2	(1.6)	12.1	(1.7)	23.4	(2.3)	29.7	(2.6)	21.9	(2-2)	6.2	(1.3)	0.5	(0.7)
taly (Provincia Engli Venezza Giulta)	1.8	(6.9)	2.2	(1.6)	20.8	0.5	34.4	(3.7)	27.5	(2.6)	8.8	(1.6)	12	(0.5)
taly (Provincia Lazio)	5.9		14.2	(1.8)	27.3		33.1		16-8	(2.1)	2.6		0.0	
taly (Hovinos Eszio) Italy (Hovinos Ligura)	4.0	(1.8)	9.6	(1.2)	241	(3.0)	37.0	(2-6)	20.3	(2.1)	4.8	(0.9)	0.0	0
taly provincia Ligura) taly (Provincia Lombarda)	2.3	(1.0)	7.2	(1.5)	19.5	(3.1)	37.0	(2.4)	27.9	(2.5)	7.4	(1.2)	0.0	(0.5)
taly (Hovincia Comercia) taly (Hovincia Marche)	3,8		10.5		23.3	(2.3)	33,8		23.0	(2.1)	5.3		0.8	(0.3)
	5.3	(1.2)		(1.8)	23.5		33,8	(1.9)	10.5		0.8	(1.2)		
taly (Provincia Molisei		(1.2)	16.8	(2.6)		(3.9)		(2.9)		(1.69		(0.6)	0.0	0
taly (Provincia Plemonto)	5.3	(2.0)	13.8	(2-6)	25.1	(2.3)	29.8	(3.1)	20.8	(2-4)	1,8	(1.2)	0.3	(0.3)
taly (Provencia Puglie)	4.4	(1-6)	13.8	(2-2)	28.6	(2.9)	31.1	(2-6)	18.2	(2.3)	3.5	(1-2)	0.3	(0.4)
taly (Pickincia Sandegra)	4.9	(1.6)	17.4	(2.3)	25.6	(2.6)	307	(2.6)	147	(1.7)	2.6	(0.7)	0.0	-
taly (Provincia Sicilia)	9.3	[2.0]	204	(3-4)	31-2	(2.6)	28-6	(3-7)	9.1	(2.1)	1.6	(0.7)	0.0	-
taly (Provincia Toscana)	4.1	(1.5)	11.5	(1.7)	24.2	(2.4)	34.1	(2.5)	21.1	(2.2)	4.6	(1.4)	0.4	(0.3)
taly (Province Trento)	3.1	(1.3)	8.3	(2.0)	20.8	(2.3)	33.1	(3-4)	264	(2.5)	7.9	(1-7)	0.4	(0.4)
taly (Provincia Umbria)	3.7	(1.5)	11.7	(2.0)	26.3	(23)	323	(2.2)	21-1	(2.3)	4.6	(1.1)	0.3	(0.3)
taly (Provincia Valle d'Aosta)	19	(0.9)	9.4	(1.6)	24.1	(2.3)	35.5	(3.5)	23.0	(2.3)	5.4	(1-2)	0.6	(0.6)
taly (Provincia Veneto)	2.1	(0.5)	8.1	(2.1)	20,8	(3.3)	35.8	(3.2)	25.1	(2/6)	7.6	(1.3)	0.7	(0,3)
United Kingdom (England)	3.7	(0.5)	11.6	(1.0)	23 1	(1.1)	29.9	(1.4)	21.8	(1/4)	8.6	(0.9)	1.4	(0.3
United Kingdom (Northern Ireland)	3.7	(1.1)	12.6	(1.4)	219	(1.5)	30.6	(1.5)	21.3	(1.7)	8.5	(1.1)	1.5	(0.6)
United Kingdom (Wales)	4.3	00,75	144	49.20	283	(1.6)	29.7	(1.4)	17.1	41.39	5.4	(0.81	0.7	00.31

Note: See Table 1.3.5 for national data SeatLink http://de.doi.org/10.1787/888532343304



		All sta	ideste			Ges	nder d	Eeres	ices		Percentiles												
		Mean score		Standard deviation		Boys		Cirls		Difference (8 - G)		Sib		109b		ich	75th		90th		95th		
	Mean	S.E.	S.D.		Meas score	S.E.	Meas		dit.	S.E.	Score	S.E.	Score	S.E.	Score	S.F.	Score	S.F.	Score	S.F.	Score	S.F.	
Adjudicated																							
Belgrum (Flemish Community)	526	(2.50	98	20	529	(3.6)	523	(3.5)	5	(6.3)	350	(5.3)	392	(5.6)	461	60	596	B.20	647	(4.0)	673	(4.5	
Span (Andalusa)	469	(5.3)	88	(2.5)	477	5.8	461	(6.2)	16	(5.5)	318	(9.9)	353	(9.2)	413	(2:1)	531	(3.50)	579	(5.7)	606	(5.8	
Spain (Asigon)	505	(4.3)	86	(1.5)	529	(5.5)	502	(5.0)	6	(6.1)	353	(8.9)	352	(6.7)	451	(3.8)	566	(4.5)	610	(4.3)	635	(6.8)	
Spalle (Asturius)	502	(4.0)	92	(2.2)	508	(5.8)	495	0.89	13	(6.1)	340	(87)	376	(7.1)	443	(6.5)	566	(5.8)	613	(6.2)	641	(\$.4	
Spain (Bileanc blands)	461	(52)	88	(2.2)	466	(6.25	456	(6.7)	10	(5.8)	310	(0.5)	346	(9-9)	404	(84)	523	(6.6)	573	(4:9)	599	(5.7	
Sprin (Bergur Country)	495	2.5	78	43.30	416	0.5	492	2.9	- 6	(3.2)	361	(50)	353	F4-05	444	(3.5)	548	(2.4)	593	0.2	618	0.9	
Sprin (Carery Nurch)	452	(4.1)	77	(7,69	432	(5.1)	444	47	15	(52)	304	80	335	(7.4)	390	0.75	515	1420	565	0.50	576	07.7	
Sprin (Cantabria)	500	(4.7)	20	(1.5)	536	(5.1)	494	5.0	12	(5.3)	346	0789	383	01-20	440	(5.3)	564	(5.25)	614	(2.3)	641	054	
Spain (Castile and Lean)	516	(4.28)	35	(2.5)	519	95.55	513	(5.2)	6	0521	367	(9-6)	400	65,25	461	8.50	575	PL50	625	06.13	640	07.7	
Span (Catalona)	497	(5.9)	88	(24)	502	84	493	5.0	9	(S.O.	345	831	380	(10.3)	440	(7.3)	561	16.23	606	B-71	631	17.0	
Sonn (Create and Meltilla)	416	(2.6)	100	(2.2)	414	94.08	418	(2.5)		64.61	240	(7.9)		0.0		(4.6)		D. 60	555	(4.8)		7.0	
Sonn (Collica)	506	(4.12)	75.	0.50	525	75.40	907	8.19		64.30	157	20	250	(6-5)	449	(8-7)	588	0.75	631	(5.7)	617	0.6	
Spain (La Ricia)	509	(2,6)	91	0.40	510	(3.5)	328	53.63	2	65.78	349	(8.5)	389	(7.2)		CO	573	B(1)	619	0.20	643	053	
Sour (Mudrid)	506	(4.2)	36	0.49	538	HS	507	5.80	- 5	6.71	364	80	394	(5.5)	450	(5.4)	568	PLEO	614	6.7	640	66.3	
Sour (Marrie)	454	(5.35	24	65	A36.	(54)		8.75	74	65.00	342		372	(7.4)	426	(72)		12.50			616	05.3	
Spain (Navorni)	509	0.70	85	p.m	511	D.SE	504	65.73	2	(44)	363	(7.1)		(7.4)	451	0.4	570	0.85	613	(4 8)	642	06.3	
Unded Kingdom (Scotland)	534	(1.5)		(11.49			510	(CO)	9	(6.7)			391	64-0			382		638		660		
Non-adjudicated	-	-		-	-	-				-		-		_				-		-	-	-	
Belgum (Feerch Community)	482	(4.25	109	Hill	435	15.25	40%	44.00	8		293	(11.1)	337	80	411	(5-1)	562	PL-43	612	65.11	640	(5.1	
Belgium (German-Soraking Community)	519	0.00	89	0.0	529	0.00	500	46.70		6.0	369	(0.5)	299	0.11	455	(54)	585	H 33	632	(5.0)	657	0.7	
Finland & posh Speaking	556	(2.5)	29	(3.29	548	Z3.08	564	0.7	-15	0.8	400	66.00	479	(4-6)	456	0.6	615	DW	555	0.0	695	0.3	
Finland (Swedish Speaking)	528	0.0	88	(7.59)	522	94.83	534	0.89	-12	6.0	381	0.0	435	0.7	468	14.50	589	DUM	638	(5.5)	667	(5.9	
Italy (Proyncia Alauzzo)	450	(5.75	91	65.50	478	95.73		50	-4	05.70		ars.					544	15.50		(7.7)			
taly (Province Autonoma di Bokono)	511	0.5	90	(240)	534	0.31	512	00	- 2	O.B.	356	(9.7)	392	0.40	456	64.70	574	D.85	628	(4.7)	456	(3.9	
Italy (Provincia Basilicata)	455	0.9	76		468	(5.3)		44.00	4	0571	325	0.9		(540)		(5.2)		PLE		(5.1)		(5.6	
taly (Provincia Calabra)	441	(2.2)	86	(1.2)	437	5.0	449	5.0	-12	(7.1)	299	(8.7)		8.0	384	(7.1)	900	P.30	555	(7.7)	584	(7.6	
Italy (Province Campana)	446	(6.16)	93	66 ED	439	98.95		57	-17	937)		0679		D1/0		(5.1)		17.80		(B) (T)		65.3	
taly Provincia Emilio Romana)	508	(4.00	99	64.10	529	(5.3)	497	5.7	22	0.41		(15.3)		(30.5)	443	5-6	579	15.50	631	(6-2)	657	(7.5	
Italy (Province Fruit Venezia Guila)	524	(4 (0)	92	65.25	519	95.27		5.0	-10	0.71		(3-5)		11120	466	(7.7)		(2.19)	639	(6.7)	667	CLE	
biy (Povney Laze)	482	(2.0)	89	(3.7)	401	(5.0)		5.25	-1	0.8	332	(8.7)		(7.5)	420	6.7	546	55 Ch	595	06-30	672	(7.8	
toly (Province Experts)	495	19.95	94			(15.9)		4519		U SOL		(B/)		D7.80		(140)		B1.00		BLO	644	0.0	
taly (Province Logina)	576		99	66.13	536			9.72		0.6							500	12 th					
		(2.9)		(9.1)		(7.9)	525		0	(944)		(16-0)		[13 0]	472	(7.7)			636	(6-2)	663	(7.5	
Italy (Provincia Marchel	504	(6.5)	89			(904)		144				(11.1)		(11,2)		1103)		(2.0)		(6.0)	6-67	(2.0	
Italy (Provincia Molise)	469	0.0	84	(2.5)	-01	(4.1)		(3.1)	3	(4.7)	325	(78)	359	(7.3)	415	(4.6)	526	(4.3)	574	(5-4)	603	(7.8	
Ibly (Provincia Plemonte)	501	(5.2)	93	(2.6)	510	55.39		(6.2)	17	(7.3)	338	(8.1)		(7.9)		(7.7)		(5.1)		(5.9)	646	(6.9	
Italy (Provincia Puglia)	490	(6.3)	90	(3.9)	492	(2.3)	409	0.9	3	(7.4)		(\$2.7)		(101)	490	(6.9)	555	(7.9)	605	(70)	633	(7.9	
Italy (Provincia Sardegra):	474	(4.5)			471	(5.9)		(60)	-6	(7-6)		(114)		(7.3)		(5.2)		(5.6)		(5.8)	619	(6-7	
toly (Provincia Sicfla)	451	82	98	62		(TOR	654	48.5)		(10.3)		(21.5)		(13.2)	387	(9.5)	520	(7.4)	573	(7.9)	606	0.9	
Italy (Provincia Toscana)	500	57)			499		500	(62)		(9.3)		(B33)		(10.7)		(7.5)		(7.3)		(9.7)		6.9	
Italy (Province Trento)	523	0.6	94	82)	526	[4.0]	519	0.4		(199)		(11.1)		(9 S)	460	(5.8)	589	(4.2)	640	(4.9)	669	0.5	
Italy (Provincia Umbra)	497	(5.0)	96	(4.1)	495	15月	499	(57)	-3	(7.5)	334	(16-15)	373	(10.2)	435	(7.9)	564	(5.1)	616	(51)	642	(5.2	
toly (Province Valle d'Assta)	521	(2.6)	88	(2.3)	531	(3.3)	512	39	19	50	366	80	406	(5-4)	465	(4-6)	583	(4.8)	630	(4.5)	658	(6.9	
Italy (Provincia Veneto)	518	(51)	88	(3.2)	516	(8.1)	520	90	-4	(11.2)	364	(109)		(9.8)	461	(7.5)	580	(6.0)	627	(7.1)	655	(7.5	
United Kingdom (England)	515	8.0	99	(1-6)	520	(43)	510	(3.7)	10	(5.4)	349	(5.1)	385	(4.5)	448	(4.4)	584	(3.8)	641	(3.8)	673	(45	
United Kingdom (Northern Ireland)	511	849	103	(3.9)	514	(8.7)	509	44.5)	5	(10.6)	341	(12.1)	378	99	440	(73)	584	(50)	642	(58)	676	(5.7	
Linked Kinedom (Molec)	406	0.0	or	0.0		54.08	491	44.00				5.0		65.70		66.53	563	D III			455		

Note, See Table 1.3.6 for national data.

Values that are stansocally agenticant are indicated in bold (see Annex A3)

StatLink (age) https://doi.doi.org/10.1787/88892243204

United Kingdom (Northern Ireland) United Kingdom (Wales)

496 (3.5) 95 (1.4) 500 (4.0) 491 (4.0) 9 (3.7) 336 (5.0) 373 (5.2) 430 (4.5) 561 (3.0) 619 (3.0) 655 (5.2)



[Part 1/1]

	15-year-old students who are:														Perc	entage top			
	not top performers in any of the three domains		top performers only in reading		top performers only in mathematics		top performers only in science		performers in reading and mathematics but not in science		performers in reading and science but not in mathematics		performers in mathematics and science but not in reading		top performers in all three domains		performers in reading who are top performers also in mathematic and science		
	%	S.E.	%	5.E.	%	S.E.	5.	5.0	25	S.L.	5	S.E.	%	S.E.	%	S.C.	%	S.E.	
Adjudicated																			
Belgram (Flemish Community)	704	(1.2)	1.0	(0.2)	12-1	4D-00	1.2	(0.2)	3.0	D:0	96	(0.2)	3.7	(\$15)	8LO	(0.0)	64,0	0.5	
Spain (Andalusia)	941	(1.1)	0.5	(0.3)	2.7	(0.40)	0.9	(0.3)	0.4	0.2)	0.3	(0.7)	0.6	63-6	0.5	(33.3)	29.3	(11.0	
Spain (Azigon)	83.4	(1.6)	1.0	0.3	89	(3.3)	10	0.0	1.4	10.9	0.3	(0.2)	1.9	63.49	2,0	(0.5)	42.3	83.6	
Spran (Asturon)	87.0	(1.6)	1.3	(0.4)	42	(0.0)	12	(0.3)	1.2	(0.3)	0.4	(0.3)	20	(0.7)	2.7	(D 6)	47.9	\$8.5	
Spain (Relearic Mande)	55.9	(0.24	0.7	(0.5)	3,4	(0.00)	0.4	(0.2)	0.4	(0.2)	0.2	(0.1)	CLO	(0.3)	0.5	(11.1)	27,6	(15.1	
Spran (Basque Country)	857	(0.0)	1.0	(0.3)	82	(0.7)	04	(01)	1.8	(03)	01	(0.1)	1.2	(0.3)	15	(33.3)	341	(4.3	
Spain (Canary Islands)	96.2	(0.7)	1,2	(0.4)	0.7	(0-4)	0.9	(D3)	0.2	(0.2)	03	(0.2)	04	(0.2)	0.2	(0.2)	2.2	(3.0)	
Spain (Cartabra)	85.2	0.64	1.1	82.30	5.4	0295	14	0.2	1.1	6349	04	60.20	2.3	6.6	21	0.5	45.1	17.6	
Span (Castile and Leon)	81.5	(1.7)	0.9	40.30	8.0	(1.2)	13	0.5	13	(0.5)	0.6	6.0	2.7	0.9	33	(0.7)	53.4	47.3	
Souin (Catalonia)	87.1	(1.9)	1.0	82.35	6.1	(1.25	12	0.5	1.1	0.0	0.3	0.29	1.9	0.69	1.3	0.5	34.0	(11.8)	
Soam (Couts and Mellitz)	95.3	40.0	0.6	40.25	1.2	D-0	0.0	10.53	0.3	8029	0.1	10.11	04	(0.29	0.3	(0.7)	212	05.6	
South (Caltrie)	29.4	0.0	1.1	49.45	3.4	8275	1.9	0.5	0.5	625	0.7	10.39	10	6.9	12	6.5	33.8	40.0	
Span (La Reop)	82 B	0.4	1.1	40.50	7.7	(7,3)	1.0	9.4	1.5	10-60	0.2	60.73	2.5	DB	3.3	60.60	54.7	45.3	
Soun (Madrid)	85.4	0.6	1.2	40.45	4.9	10.60	1.5	D-0	1.6	10-0	06	ID 39	1.3	E239	2.7	Ø.B	462	47.6	
Span (Munia)	92.7	a.a	0.7	42.35	2.9	p.75	0.8	D.34	0.9	10.70	0.2	D.25	13	0.0	0.7	60.30	282	(109	
Spain (Navarre)	83.8	4.0	1.2	40.51	7.6	(1.3)	1.3	D40	13	10.00	0.2	10.25	24	0.6	21	(0.5)	43.6	(9.2	
United Kingdom (Scotland)	83.2	(8.2)	7.5	(0.4)	3.2	04	19	(0.4)	10	(03)	10	10.39	2.5	(5.2)	5.6	60-09	610	64.7	
Non-adjudicated	-																_	-	
Belgium (French Community)	85.7	0.21	1.1	0.2	51	0.71	0.3	(0.1)	2.1	0.0	0.4	(D.D)	1.3	6349	3.5	(0.5)	39.6	PL4	
Belgium (German-Speaking Community)	81.5	(1.6)	1.1	0.2	6.7	(3.7)	10	0.0	0.7	06	0.7	0.4	4.1	0.0	3.8	(0.89	58.5	110.2	
Finland (Finnish Sprokens)	70.0	(7.7)	2.5	40.75	6.5	D6	3.2	0.6	14	6029	2.2	(0.4)	50	0.5	55	61.71	581.8	0.1	
Finland (Swedish Speaking)	79.6	0.5	1.6	0.40	6.7	0.0		DS.	1.1	0.6	0.7	E).71	3.6	677	49	0.81	58.8	15.6	
Taly (Province Absuzzo)	91.2	(7-54	13	(D.S)	3,4	(8.30	0.9	03	0.6	10.39	0.7	E0.30	09	(0.5)	10	0.49	27,1	84	
Taly (Provincia Autonoma di Bolzono)	82.5	0.04	1.2	40.30	64	10.63	19	0.0	1.0	(03)	0.7	(0.7)	3.5	(0.6)	2.9	an ea	51.0	17.4	
Taly (Provincia Basilicata)	91.7	(1.0)	1.5	(D4)	3.7	p.77	0.5	620	0.6	(03)	6.0	6000	0.9	6140	10	(0.3)	306	13.4	
Italy (Provincia Calabria)	95.6	10.55	0.6	80.70	13	50	04	02	0.0	(0.3)	0.0		02	(0.7)	03	(0.2)	23.6	(12.0	
Italy (Provincia Carpania)	964	0.6	0.6	80.40	3.0	0.5	05	£0.30	0.4	D21	0.6	02	0.2	0.29	05	(0.2)	27.1	69.7	
Iziy (Province Emilia Romagia)	796	(1.3)	2.5	96	70	(1.3)	1.5	603	1.6	0.0	1.2	0.0	3.0	0.8	3.7	(0.7)	40.9	67	
Italy (Provincia Eriuli Venezia Giulia)			3.0	0.6		(0.0)	22		12		1.0	10.49	3.2	07)	4.8	60.73		44.9	
	90.4	(1.6)	2.0		4.1	99	07	60	0.7	6.0	06	10.33	10	0.9			48.5		
taly (Province Lazo)				(0.5)			11	600	1.0		07		2.4		12	0.0	262	46.2	
taly (Provincia Ligura)	36.8	(1.9)	2.1	(0.6)	3.5	(0.8)				10-4	13	(0.3)	3.1	(3.9)		(0.6)	388	(71	
taly (Provincia Lombardia)	900	(20)	3.3	(0.7)	4.6	(D-60)	1,4	(0.5)	1.5	(2.0)		0.9		0.69	48	(1.0)	43.9	64	
taly (Provincia Marche)	85.8	(1.2)	28	(0.6)	40	(09)	1.2	p-0	1-2	(0:0)	0.8	10-0	17	(0.6)	26	(0.5)	34.9	169	
Taly (Provincia Molise)	93.6	(1.2)	69	0.6	3.0	\$2.69	6.3	(0.3)	0.4	653	0.0	C	1.2	0.9	0.5	(04)	269	(18-1	
taly (Provincia Piemonte)	85.6	(1.5)	2.7	(0.7)	3.7	43.94	1.0	104	13	(0.5)	0.7	(0.3)	2.2	(0.6)	2,8	(0.6)	37,8	16.2	
July (Province Puglie)	87.8	(2-1)	1.7	(0.5)	51	(1.3)	0.8	(0.3)	0.6	(0.3)	06	(0.3)	2.3	07)	1.3	(0.5)	31.8	0.3	
taly (Provincia Sardegna)	98.6	(0.8)	1.6	(0.5)	1.2	包件	0.8	104	0.4	(0.2)	0.6	(0.3)	1.3	0.5)	8.0	(0.3)	23.7	95.7	
taly (Provincia Sicfia)	98.1	(1.3)	13	(0.4)	3.0	(0.9)	0.5	1029	0.4	(03)	0.2	102)	0.7	0.4	0.8	(0.4)	283	(11-4	
taly (Provincia Toscana)	856	(1.9)	23	(0.5)	43	(1.0)	1.3	(0.5)	0.7	(0.3)	0.5	(D3)	2.4	(0.8)	28	(0.7)	44.1	(83	
taly (Provincia Trento)	80.3	(1.2)	2.6	(0.6)	44	(0.7)	2.2	(0.6)	1.0	0.9	0.9	(0.5)	3.7	(8.0)	48	(8.0)	51.4	(6-1	
Italy (Province Umbris)	863	(1.2)	28	(0.6)	3.7	(0.5)	1.3	(0.3)	0.8	(03)	0.7	(0.3)	20	(0.5)	26	(0.7)	38.2	(7.6	
Italy (Provincia Valle d'Aosta)	83.3	(1.5)	2.7	(0.6)	3.7	(0.5)	1.6	(0.5)	1.2	0.0	1.1	0.9	2.3	(0.6)	44	(0.7)	47.3	16.9	
Italy (Provincia Vineto)	82.7	(2-1)	20	(0.5)	53	(0.0)	15	10-0	1.0	104	10	(0.4)	3.1	(0.8)	3.4	(0.6)	45,5	166	
Livited Kingdom (England)	844	(1.0)	1.3	(0.2)	22	(D3)	28	(DS)	0.5	(0.2)	16	(0.3)	2.5	69	46	(0.5)	57,3	44.5	
United Kingdom (Northern Instand)	83.8	(1.1)	1.5	(0.4)	2.3	9.0	2.4	00	0.6	(0.29	2.1	(0.5)	2.2	6.0	5.1	(0.7)	55,0	46.2	
United Kingdom (Wales)	901	0.6	0.9	60.30	1.1	SD 30	2.5	0.4	0.2	60.00	1.6	(0.3)	13	(0.3)	2.5	0.4	49.6	6.1	

Note: See Table 1.3.7 for national data Statt.tok (asplies http://dx.doi.org/10.1787/888932343304



[Part 1/2]

Table S.I.z		1/2] Iappi	ing of	top	perfo	rmer	rs in reading, mathematics and science, by gender											
								Boys w	ebo are									ntare
	not top performers in any of the three domains		performers only in reading		top performers only in mathematics		top performers only in science		performers in reading and mathematics but not in science		in reading		and science but not in		top performers in all three domains		of be perfo in re who a perfo als mathe and s	mens ading are top amens a in matics cience
Adjudicated	%	S.E.	25	S.E.	%	SL	- 5	S.L.	75	S.L.	5	5.E.	%	S.E.	%	S.E.	%	S.E.
Adjustrated Belgram (Florrigh Community)		(1.5)	9.2	40.11		0.4	1.1	(0.3)		D40	9.3	(0.7)		(Q.7)	85.2	(1.1)	80.4	(4.1)
Spain (Andalusia)	92.4	(1.5)	90	(ALI)	37	(3.3)	1.2	0.6	1.5	0.7	0.3	(0.3)	11	(D.4)	0.7	0.0	44.0	(18.5)
Span (Attigon)	203	(2.4)	0.2	(0.2)	123	(3.50	13	126	0.6	029	03	(0.7)	30	(0.7)	2.3	(04)	678	(11.3)
Spain (Abbron)	85.5	(2.1)	0.2	0.10	52	(8.20	1.7	(0.6)	0.9	D.6	60	(0.0)	31	(1.2)	3.7	(0.9)	20.2	(10.1)
	92.0		0.4				07			6.39							479	
Spain (Balearic Mands)		(1.25		(0.2)	5.2	(1.2)		60-0	0.3		0.0	E	1.0	(0.4)	0.5	(0.1)		(21.0)
Spain (Basque Country)	83.9	(1.1)	0.3	(0.2)	104	(1.2)	9.0	(0.2)	1.1	620	01	(01)	20	(5.2)	16	(13.3)	51,8	\$2.00
Spain (Canusy Islands)	95.6	(7.0)	0.7	(P4)	0.5	(2.5)	1,2	(D4)	0.3	(0.3)	0,6	(0.2)	0.7	6.0	00	c	14.6	(181)
Span (Cantabro)	819	(1.4)	0.0	c	78	(3.30	17	(0.0)	0.6	124	0.0	E	35	(1-1)	23	(11.7)	73.6	(12.5)
Span (Castile and Leon)	79.2	23+	0.0	C	104	(1.7)	13	(0.5)	0.7	(05)	0.0	D	43	(1.1)	3.8	(1.1)	78.4	(9.2)
Spain (Catalonia)	84.3	24	0.3	(0.3)	5.9	(3.4)	1.4	(0.7)	0.5	62.0	0.0	E	2.7	(29)	1,4	(0.7)	51.4	(16.5)
Spain (Ceuta and Mellitz)	95.2	(0.6)	03	(0.3)	2.1	(P7)	09	(0.0)	0.0	c	0.0	E.	06	(24)	Q,O	U	33.2	(28.3)
Spain (Galicia)	85.3	0.0	0.0	C	4.5	(P%)	20	(P4)	0.4	620	0.4	(P.3)	25	(26)	13	(0.7)	47.7	(17.9)
Spain (La Riopi)	79.6	(2.1)	6.0	C	11.0	(1.5%	1,1	(0.4)	0.6	60'29	0.0		42	(0.9)	3.3	(0.8)	892	(12.0)
Spain (Madrid)	85.0	(1.5)	0.3	40.25	6.8	(1.2)	1.9	(0.0)	0.9	10-0	0.0		2.1	P6	2.5	(0.9)	61.3	(11.4)
Spain (Murcia)	91.6	(3.5)	0.0	c	4.0	(1 (1)	1.2	(0.5)	0.0	•	0,0	U	17	(26)	0.9	(0.5)	5945	(10.4)
Spain (Navarre)	82.0	63	0.0	c	9.7	(7.49-	17	pe	0.7	\$0.40	0.0	E	3.6	(1.2)	2.0	(0.7)	67.6	(14.4)
United Kingdom (Scotland)	81.8	(1,7)	0.5	(D3)	44	96	2.1	(D4)	0.9	0.0	06	(0.3)	3.4	(97)	63	(1.1)	761	(4.50
Non-adjudicated	77		7		5	-			2.7	-						-		
Belgium (French Community)	81.0	(1.7)	1,7	(0.6)	7.9	(2.7)	0.5	(0.2)	2.1	(0.40)	0.3	(0.2)	2.0	(0.7)	4.6	(0.7)	53,1	(6.30)
Belgiam (German-Speaking Community)	75.5	(2.4)	90	c	9.4	(2.0)	1.5	(9.7)	0.0		0.0	E	6.1	(1.4)	3.3	(1.1)	78.4	(11.6)
Finland (Finnel) Speaking)	71.7	(1.34	0.4	p.70	9.2	pa	3.3	(05)	0.6	(0.2)	08	(0.3)	7.4	(0.7)	6.6	(0.7)	794	(4.7)
Finland (Swedish Speaking)	80.0	(2.0)	0.3	0.4	9.1	(3.5)	1.7	pe	0.5	0.0	0.0		5.1	(1.3)	33	6.0	78.5	(11.30
Italy (Province Abruzzo)	91.2	(2.3)	0.0		45	(8.2)	0.9	06	0.5	0.0	0.3	10.70	14	0.0	09	(0.5)	44.5	0500
baly (Provincia Autonoma di Bolzano)	79.2	0.36	0.2	60.25	94	(5.7)	2.2	0.0	0.4	0.3	0.2	(0.7)	5.6	63	2.9	me	78.6	55 (5)
Italy (Provincia Basilicata)	199.9	(1.4)	0.3	(0.3)	5.8	(3.30	06	10.6	0.4	0.30	0.0		1.5	627	13	(0,5)	6011	(14.1)
Italy (Provincia Calabria)	96.2	(1.1)	60	-	1.6	0.70	05	0.6	0.0	0	0.0		04	0.0	04	(0.3)	41.4	(30.5)
Italy (Provincia Campania)	99.8	(1.6)	0.0	c	39	0.5	0.4	633	03	1030	0.2	(9.2)	0.4	0.9	97	63/9	464	(201)
toly (Province Emilia Romagna)	25.3	0.0	0.3	40.25	11.2	(1.8)	2.0	0.6	1.1	(0.6)	0.4	0.3	5.3	0.40	43	0.60	701	(9.3)
Italy (Provincia Eritali Venezia Giulia)	795	29	0.3	(0.5)	61	(1.3)	25	9.75	10	10.5	03	19.30	53	0.0	4.5	(U-6)	686	47.56
taly Province Lazol	89.2	(2.3)	0.7	83.45	63	0.0	97	0.0	0.6	0.0	0.5	10-0	1.6	(11)	1.5	07		(11-6)
taly (Province Crace)		(2.5)	0.6	8040	53	(1.2)	12				0.4	10-0		(16)	24	0.0	45.0	
	85.3		0.6				20	(D:6)	0.9	10-0	0.0		4.0				55.6	(13.3)
taly (Provincia Lombardia) Italy (Provincia Marche)	85.7	(2.6)	0.5	(0.3)	60	(1.3)	13	p 60	0.8	10-0	0.5	0.0	5.1	(1-1)	4.9	(1.3)	71.0	(9.6)
																	54.4	
Italy (Provincia Molise)	90.6	(3.7)	64	(0.3)	49	(1.4)	0.5	(0.4)	0.6	be	0.0		2.0	(97)	0.0	(0.7)	43.3	(27-0)
taly (Provincia Piemorte)	84.1	2.03	1.0	(0.7)	5.6	(1.5)	1,4	(0.9)	0.9	(0.5)	63	(D-3)	3.5	(10)	3.1	(0.8)	58.1	(9.2)
toly (Provincia Puglis)	87.3	(2.5)	0.6	(0-9	57	(7.6)	1.0	(0.5)	0.3	(0.3)	0.2	(0.3)	36	(1.0)	1.3	(0.5)	53.0	(14.5)
taly (Provincia Sardegna)	99.3	(1.3)	0.4	(0),23	1.9	(0.6)	1.0	(D4)	0.5	(0.4)	0.0	C	1.9	(80)	0.9	0.9	475	(16.2)
Italy (Province Sicfo)	91.8	(1-0	0.6	(9-6)	39	(7-1)	97	10.23	9.0	c	0.0	C	1.2	(0.6)	1.1	(0.7)	45.5	(27.5)
Italy (Provincia Toscana)	83.4	(28)	0.4	(0.3)	6.7	(1.6)	1.5	100	0.5	(0.4)	0.0	(D:3)	3.9	(1.4)	3.3	(10)	72.1	(9.6)
Italy (Provincia Tranta)	78.2	(1.8)	0.7	(0.5)	58	(8.1)	2.8	(0.5)	0.6	p-9	0.7	(0.6)	5.5	(1.2)	5.7	(1.3)	749	(11.2)
Italy (Province Umbris)	84.9	(2.0)	0.6	(0.5)	5.8	(1.6)	1,4	(0.6)	0.5	0.9	0.0	C	3.6	(0.8)	28	(1.0)	63.4	(15.6)
Italy (Provincia Valle d'Aosta)	79.4	(2.0)	1.0	0.6	59	(17)	20	(98)	1.4	(0.7)	06	(9.4)	42	(1.1)	56	(1.4)	64.8	(10.9)
Italy (Provincia Vimeto)	82.0	(2.6)	0.3	(0.3)	73	(15)	19	(0.7)	0.6	104	03	(0.2)	50	(1.3)	26	(0.7)	680	(11.3)
Livited Kinedom (England)	82.7	(1.5)	0.4	00.30	32	\$2.75	32	06	0.3	ID 20	0.9	(D,30	40	(0.6)	53	0271	761	5.0
United Kingdom (Northern Indians)	81.9	(2.0)	0.5	40.35	3.5	62.60	29	0.0	0.5	0.39	12	10-60	3.5	(0.8)	60	0.0	73.5	46 60
United Kingdom (Wales)	88.6	(1.1)	0.3	80.25	1.6	0.0	3.6	0.6	0.1	(D1)	1.1	(0.3)	21	0.0	28	(0.6)	65.3	16.50

Note: See Table 13-8 for national data Statt.tok 4800 http://dx.doi.org/10.1787/888932343304



[Part 2/2] Overlaps

								Girle	ebo are								Pero	entage	
	not top performers in any of the three domains		top performers only in reading		top performers only in mathematics		top performers only in science		performers in reading and mathematics but not in science		in reading		performers is mathematics and science but not in reading		top performers in all three domains		perfe in re who perfe als maths	girl top leemers eading are top leemers lso in sematics science	
	%	S.E.	%	S.E.	%	5.2.	%	5.2.	3.	5.1.	%	5.1.	3.	S.L.	%	5.0.	%	5.0.	
Adjudicated																			
Belgum (Flemish Community)	73.1	(1.5)	1.5	(02-1)	8.5	\$2.95	1.3	(0.3)	4.5	(0.7)	0.9	(0.3)	1.9	(3.5)	7.9	(0.9)	52/4	(4.7	
Spain (Andalusia)	26.0	(1.7)	0.4	(DE	1.6	(0.7)	0.5	\$245	0.6	(D-0)	00		00	c	0.3	(0.2)	15.4	(120	
Spain (Assigne)	36.6	(1.5)	1.5	(3.5)	5.5	(3.7)	0.9	p4	2.3	(0.7)	04	(0.3)	0.7	10.49	7.3	(33)	35,6	(10.8	
Spain (Auturina)	88 8	0.6	24	(0.4)	30	(275)	0.6	(0.4)	1.6	(0.5)	0.5	(0.7)	08	(0.5)	2.1	(0.9)	30.7	(11.6	
Spain (Balearic Mands)	958	(1.7)	1.2	(0.2)	16	979	0.0	c	0.5	(0-10)	0.3	(0.3)	02	(0.2)	Q.D	C	16,0	(17.4	
Span (Basque Country)	87.6	0.0	1.8	(0.4)	59	(04)	0.2	(0.1)	2.5	(04)	02	(01)	04	(0.2)	14	(0.4)	24.2	06.0	
Spain (Canary Islands)	968	(0.8)	1.6	0.71	0.5	49-6	0.7	404	0.0		00		0.0		0.0		5.5	96.7	
Span (Cartalana)	00.6	20	2.0	0.6	49	(4.1)	12	404	1.8	10.50	0.7	D-6)	10	12-9	2.0	10.71	30.6	86	
Spain (Castle and Leon)	543	0.9	1.7	0.6	58	(1.3)	12	40.75	1.9	80.80	1.1	1019	12	126	2.8	1030	37.8	(7.8	
Spain (Catalonia)	279.9	(1.3)	18	0.71	12	(8.1)	99	40-6	1.4	(0.5)	0.5	\$2.76	1.0	(0.7)	1.3	10.60	25.7	01.0	
Sparn (Couts and Mehilla)	97.1	(0.7)	CUS	0.0	04	(3.1)	0.5	404	0.0	-	0.0	-	0.3	(0.2)	Q.D		15.8	(17.1	
Spain (Calicia)	ons	0.7	17	(0.0)	23	0.0	17	DG.	0.7	0.6	10	0.5	11	10.20	1.1	10-0	34.9	65.0	
Span (La Riop)	76.1	(I II)	2.1	09	43	0.0	58	2040	2.4	0.11	D3	80.39	D.E	10-6	32	n.o	40.7	(9.7	
Spain (Machid)	87.6	0.9	20	07	29	(0.46	1.0	4040	1.9	80.77	0.5	0.0	06	10-0	29	(1.1)	38.2	COS	
Spain (Murcia)	93.9	0.30	1.2	000	14	0.8	94	63.70	1.5	(0.7)	0.0	D2)	0.5	1040	D5	10/0	143	(11,0	
Span (Navarri)	85.6	(20)	2.4	09	5.4	0.9	0.5	60.70	1.9	(I (I)	0.4	0.5	0.9	D40	22	D.71	32.2	35.7	
Spain (Navarre) United Kingdom (Scotland)	847	(1.7)	2.5	(0.9)	20	(0.5)	17	03-61	1.2	00-49	1.5	10.56	1.5	10/0	49	D7)	48.5	00.7	
United Kingsom (scottand)	047	(12)	2.5	(0.44	20	(0.7)	1.7	926)	1.2	03-49	1.5	Die	1.5	\$3.54	49	1027	45.5	96.0	
Non-adjudicated																			
Belgism (French Community)	86.5	(7.30	4.9	(0.49)	2.3	10.59	0.2	\$2.1)	2.1	(0.7)	06	(0.2)	05	(0.2)	3.0	(0.4)	35.1	45.6	
Relgium (Cerman-Speaking Community)	84.2	(2.Q)	2.3	(3.9)	43	0.49	0.6	(0.5)	0.0	c	1.3	(0.7)	20	0.00	44	(1.4)	48.7	03.3	
Finkand (Figuresh Speaking)	68.2	(13)	47	00	4.5	(D5)	32	pa	2.2	(D-6)	36	(DE)	26	(0.2)	109	(33)	30.7	01	
Finland (Swedish Speaking)	79.3	20	29	(0.7)	44	(I) (I)	18	(0.7)	1.7	10-60	12	10.5	22	1040	6.4	(1.3)	52.1	06.4	
Rally (Provincia Abruzzo)	912	(2.1)	2.5	0.0	21	0.2	0.9	10.69	0,7	(0.5)	1.0	D-0	0.0	0	1.0	63,53	19.6	- 05 -	
Italy (Provincia Autonoma di Bolzano)	85.9	0.31	21	(0.7)	2.4	0.0	14	10.70	1.6	10.60	1.1	1040	13	10.0	3.0	nn.	35.1	01.0	
Italy (Provincia Rasilicata)	93.7	an.	27	OB	1.3	49.9	03	40.35	0.0	40.53	0.0		0.3	10.30	D6	19-5	13.8	ans	
Italy (Provincia Cafabria)	97.0	0.0	13	07	97	09	93	(03)	0.0		0.0	- 6	0.0	C	0.3	(0.2)	15.6	(13.2	
(taly (Provincia Campania)	950	(JAB)	10	DA	1.9	0.9	0.6	0.6	0.5	0.0	0.7	0.4	00	0	03	E0.30	13.1	CIDO	
Italy (Provincia Emilia Romagna)	83.7	(1,7)	46	(1,1)	3.0	OB	10	0.6	2.1	53.73	1.9	0.00	0.6	0.0	3.0	10.90	26.2	06.3	
Italy (Provincia Friuli Veneza Giulia)	81.4	(2.3)	53	(1.3)	2.0	0.8	19	408	1.4	10.64	1.8	10.75	1,1	10.75	5.2	(3,1)	38.1	06.4	
Italy (Provincia Lazzo)	91.5	(1.9)	3.6	(1.1)	1.4	0.0	07	06	0.6	10.5	0.0	0.0	0.4	(0.4)	09	(6.0)	14.4	(2.4	
Haly (Provincia Liguria)	88.5	(1-5)	3.0	(1-4)	1.5	0.73	99	and inel	1.2	10.65	10	10.59	96	DS.	25	D6	29.1	06.5	
Italy (Provincia Lombardia)	800	(2.5)	63	0.2	3.1	03	0.5	900)	2.3	4095	2.0	10.75	09	(D.S)	4.6	(1.1)	30.2	04.6	
Italy (Provincia Combardia)	860	(2.5) (1.0)	5.2	(1.2)	1.5	(P3)	1.2	(0.7)	1.7	(02)	1.2	D7	05	(0.3)	2.7	(0.7)	254	059	
	96.6	(1.7)	14	(1.3)	10	6139			9.0		0.0		00		0.0		7.9	000	
Italy (Provincia Mollse)							90	· c						c		c			
Italy (Provincia Piernoste)	87.0	(1.9)	4.3	(10)	20	(0.6)	0.5	(0.3)	1.6	(0.7)	10	104	1.0	(0.5)	2.6	(0-8)	27.2	7.3	
Italy (Provincia Puglia)	88.2	(2.4)	2.7	07)	4,5	(1-5)	0.5	67.0	0.8	(0-4)	09	106)	10	(D.S)	1.4	(0.7)	23 4	(9.2	
taly (Provincia Sardegna)	93-8	(1.2)	2.7	(0.8)	0.5	0.40	0.7	0.6	0.3	(0.3)	0.9	(0.5)	0.4	(0.4)	0.7	(D.S)	147	(IQI	
taly (Provincia Sicilia)	944	(1.7)	19	(04)	21	(1,7)	03	0.2	0.0	c	04	10-9	0.3	(0.3)	0.5	(0.3)	156	(9.2	
Italy (Provincia Toscana)	881	(18)	4.3	(1.1)	1.6	(0.7)	1,1	(0.7)	1.0	(0.5)	9.7	(0.5)	0.8	(0.5)	2.3	(0.7)	27.6	(7.1	
Italy (Provincia Trento)	82.7	(20)	4.8	(1.4)	2.8	(D 6)	1.5	(0.7)	1.5	(0.7)	1.2	(0.7)	1.7	(9.6)	3.9	(1-0)	34,5	0.5	
Italy (Frovincia Umbria)	87.7	(1.8)	4.7	(1.1)	1.7	(0.7)	0.8	(0.4)	10	(0.5)	1.1	(2 C)	0.5	0.0	25	(0.7)	27.1	56	
Baly (Provincia Valle d'Aosta)	87.1	(1.7)	4.3	(1.1)	1.5	(0.6)	09	(0.8)	1.0	(0.8)	1.5	(0.6)	04	(0.3)	3.2	(1.0)	32.4	(8.5	
Italy (Provincia Veneto)	83.4	(25)	3.7	(0.9)	3.4	(10)	10	(0.5)	1,3	(0.6)	18	(0.7)	1.3	(25)	41	(09)	38,0	(68	
Linted Kingdom (England)	86.0	(1.2)	21	(0-9)	1.2	(0.4)	25	(0.5)	0.7	(0.5)	24	p.4	1.1	(0.0)	40	(0.7)	43.7	65.6	
United Kingdom (Northern Issland)	85.6	(1.3)	2.5	(027)	1.2	(0.5)	1.9	(0.6)	0.7	p-9	28	(06)	1.0	10-0	4.2	(0.0)	41.1	(8.3	
Linted Kreadom (Walcs)	91.7	0.0	1.5	0.6	0.5	40.33	16	10.54	0.3	80.25	1.8	10.50	06	10.20	2.2	(0.5)	37.7	05.2	

Note See Table 13 6 for national data Stations (app https://doi.org/10.1787/898932343304



THE DEVELOPMENT AND IMPLEMENTATION OF PISA -A COLLABORATIVE EFFORT



INTRODUCTION

PISA is a collaborative effort, bringing together scientific expertise from the participating countries, steered jointly by their governments on the basis of shared, policy-driven interests.

A PISA Governing Board on which each country is represented determines, in the context of OECD objectives, the policy priorities for PISA and oversees adherence to these priorities during the implementation of the programme. This includes the setting of priorities for the development of indicators, for the establishment of the assessment instruments and for the reporting of the results,

Experts from participating countries also serve on working groups that are charged with linking policy objectives with the best internationally available technical expertise. By participating in these expert groups, countries ensure that the instruments are internationally valid and take into account the cultural and educational contexts in OECD Member countries, the assessment materials have strong measurement properties, and the instruments place an emphasis on authenticity and educational validity.

Through National Project Managers, participating countries implement PISA at the national level subject to the agreed administration procedures. National Project Managers play a vital role in ensuring that the implementation of the survey is of high quality, and verify and evaluate the survey results, analyses, reports and publications,

The design and implementation of the surveys, within the framework established by the PISA Governing Board, is the responsibility of external contractors. For PISA 2009, the questionnaire development was carried out by a consortium led by Cito International in partnership with the University of Twente. The development and implementation of the cognitive assessment and of the international options was carried out by a consortium led by the Australian Council for Educational Research (ACER). Other partners in this consortium include capStAn Linguistic Quality Control in Belgium, the Deutsches Institut für Internationale PSdagogische Forschung (DIPF) In Germany, the National Institute for Educational Policy Research in Japan (NIER), the Unité d'analyse des systèmes et des pratiques d'enseignement (aSPe) in Belgium and WESTAT in the United States.

The OECD Secretariat has overall managerial responsibility for the programme, monitors its implementation on a day-to-day basis, acts as the secretariat for the PISA Governing Board, builds consensus among countries and serves as the interlocutor between the PISA Coverning Board and the international consortium charged with the Implementation of the activities. The OECD Secretariat also produces the indicators and analyses and prepares the international reports and publications in co-operation with the PISA consortium and in close consultation with Member countries both at the policy level (PISA Governing Board) and at the level of implementation (National Project Managers),

The following lists the members of the various PISA bodies and the individual experts and consultants who have contributed to PISA.

Chair of the PISA Governing Board: Lorna Bertrand

OECD countries

Australia: Tony Zanderigo

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STUDENT PERFORMANCE IN READING, MATHEMATICS AND SCIENCE

VOLUME I

An students well prepared to meet the challenges of the future? Can they analyse, reason and communicate their ideas effectively? Hase they found the fixed of interests they can pruse therupdont their lives as productive members of the economy and society? The OECD Programme for International Student Assessment (PISA) seeks to answer bees questions through the most comprehensive and rigorous international assessment of student knowledge and skills. Together, the group of countries and economies participating in PISA represents nearly 90% of the world economic.

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technologies to learn.

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 Rology oxentation, which highlights differences in performance patterns and identifies features common to high-performing students, schools and education systems by linking data on learning outcomes with data on student characteristics and other key factors that shape learning in and outside of school.

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